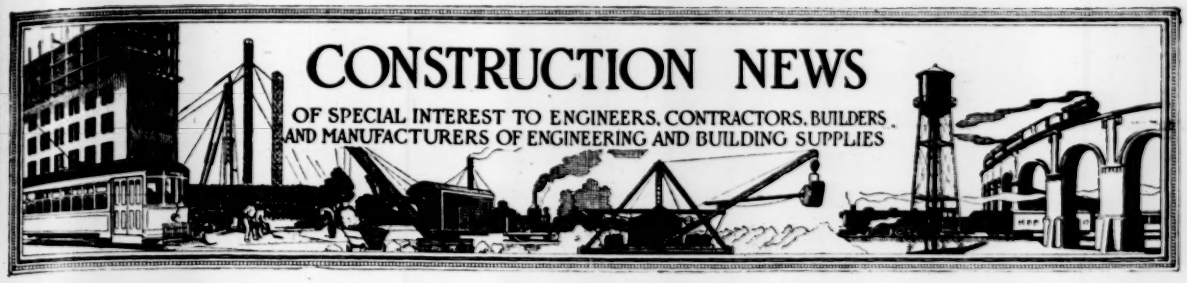
CONSTRUCTION NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS, AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close		See Eng. News-Record
June 23	Hoffman Island, N. Y. Adv. June 19.	June 19
June 23	Bethlehem, Pa. Adv. June 12 and 19.	June 19
June 23	Lusk, Wyo. Adv. June 12 and 19.	June 12
June 23	Bemidji, Minn.	June 19
June 24	Toledo, O.	June 5
June 25	New York, N. Y.	June 19
June 25	Fountain Inn, S. C. Adv. June 5 and 12.	June 12
June 26	Morris Plains, N. J.	June 12
June 30	Salem, N. J. Adv. June 19.	June 19
July 1	Salem, Ill. Adv. June 19.	June 19
July 15	Denton, Mont.	June 19
July 16	Decorah, Ia. Adv. June 12 and 19.	June 12

SEWERS

June 20	Roselle Park, N. J. Adv. June 12 and 19.	June 12
June 23	Lansing, Mich. Adv. June 5, 12 and 19.	June 12
June 23	Dundas, Ont.	June 12
June 24	Toledo, O.	June 5
June 24	Duluth, Minn.	June 19
June 24	Barberton, O.	June 19
June 25	Lancaster, O.	June 19
June 25	Lima, O. Adv. June 5 to 19.	June 5
June 25	Jamesburg, N. J.	June 12
June 26	Greenwich, Conn. Adv. June 12 and 19.	June 12
June 27	Sherburn, Minn.	June 12
June 27	Deshler, Neb.	June 12
June 27	Detroit, Mich.	June 19
June 30	Sheboygan, Wis.	June 19
July 1	Wakefield, Neb.	June 12
July 14	North Mankota, Minn. Adv. June 19.	June 19
July 16	Milaca, Minn.	June 19

BRIDGES

June 21	Pensacola, Fla.	June 19
June 23	Osceola, Mo.	May 29
June 23	Lander, Wyo.	June 19
June 23	Sundance, Wyo.	June 19
June 23	Mercer, Pa.	June 19
June 23	Richland, Wash.	June 19
June 23	Duluth, Minn.	June 19
June 24	Menasha, Wis.	June 19
June 25	Michigan	June 19
June 28	Toronto, Ont.	June 19
June 30	Mora, Minn.	June 19
July 2	Pocahontas, Ia. Adv. June 19.	June 19
July 7	McAlester, Okla. Adv. June 12 and 19.	June 19
July 7	Monroe, Ga.	June 19
July 10	Riparius, N. Y. Adv. June 19.	June 19
July 14	Princeton, Minn.	June 19
July 15	Cedar Rapids, Mich. Adv. June 19.	June 19
July 17	Elmira, N. Y. Adv. June 19.	June 19

STREETS AND ROADS

June 20	Connecticut	June 19
June 21	Port Huron, Mich.	June 19
June 23	Wichita, Kan.	June 5
June 23	Jackson, Tenn.	June 5
June 23	Toledo, O.	June 5
June 23	Coatesville, Pa. Adv. June 12 and 19.	June 12
June 23	Geneva, N. Y. Adv. June 12 and 19.	June 12
June 23	North Adams, Mass. Adv. June 12.	June 12
June 23	California	June 12
June 23	Martinsburg, W. Va.	June 12
June 23	Duluth, Minn.	June 12
June 23	Clairton, Pa.	June 19
June 23	Bozeman, Mont.	June 19
June 23	Washington	June 19
June 23	Sarnia, Ont.	June 19
June 23	Wyoming	June 19
June 23	Duluth, Minn.	June 19
June 23	Long Island City, N. Y.	June 19
June 24	Massachusetts	June 19
June 24	King City, Mo.	June 19
June 24	Toronto, Ont.	June 19
June 24	Villisca, Ia.	June 19
June 24	Grand Rapids, Minn.	June 19
June 24	Hartford, Conn.	June 19
June 24	Wisconsin	June 19
June 24	Columbia, S. C.	June 19
June 24	McPherson, Kan.	June 12
June 24	Grand Rapids, Minn.	June 12
June 24	McCook, Neb.	June 12
June 24	Marshall, Minn.	June 12
June 24	Washington	June 12
June 24	Greensburg, Pa.	June 12
June 24	Indianapolis, Ind.	June 12
June 24	Pennsylvania Adv. June 5 to 19.	June 12
June 24	New Mexico	May 29
June 24	Massachusetts	June 5
June 24	New York, N. Y.	June 19
June 25	New York, N. Y.	June 19
June 24	Jersey City, N. J.	June 19
June 25	Washington	June 12
June 25	Athens, Ala.	June 12
June 25	Reading, Pa. Adv. June 12.	June 12
June 25	Trenton, N. J.	June 12
June 25	Aberdeen, Wash.	June 12
June 25	Madison, Minn.	June 12
June 25	Duluth, Minn.	June 19
June 25	Port Huron, Mich.	June 19
June 25	Illinois Adv. June 19.	June 19
June 25	St. George, S. I. N. Y.	June 19
June 25	Brooklyn, N. Y.	June 19
June 26	Long Island City, N. Y.	June 19
June 26	Adair, Ia.	June 19
June 26	Rison, Ark. Adv. June 12 and 19.	June 19
June 26	Miami, Fla.	June 19
June 26	Jersey City, N. J.	June 12
June 26	Arkansas Adv. June 12 and 19.	June 12
June 27	Hiawassie, Ga.	June 5
June 27	Indianapolis, Ind.	June 5
June 27	Aberdeen, Wash.	June 5
June 27	Litchfield, Minn.	June 12
June 27	Ohio	June 12
June 27	Elliott, Ia.	June 19
June 27	Ilion, N. Y. Adv. June 19.	June 19
June 27	Albert Lea, Minn.	June 19
June 28	Vancouver, Wash.	June 19
June 28	Solana, Minn.	June 19
June 28	Opelousas, La.	June 19
June 28	North East, Pa. Adv. June 19.	June 19
June 28	Indiana	June 19
June 28	Litchfield, Minn.	June 12
June 28	East Liverpool, O.	June 12
Jnue 28	Fairmont, W. Va.	June 19
June 28	Fairmont, W. Va.	June 12
June 29	Redwood Falls, Minn.	June 19
June 30	Creston, Ia.	June 19
June 30	Kearney, Neb.	June 12
June 30	Sidney, Ia.	June 19
June 30	Bismark, N. D.	June 19
June 30	Virginia	June 19
June 30	Mora, Minn.	June 19
June 30	Lawrence, Kan.	June 19
June 30	Indiana	June 19
July 1	Ridgefield Park, N. J. Adv. June 19.	June 19
July 1	Lewisburg, W. Va. Adv. June 12 and 19.	June 19
July 1	Tabor, Ia.	June 19
July 1	Marshall, Ark.	May 22
July 1	Benkelman, Neb.	June 12
July 1	New York Adv. June 12.	June 12
July 2	Grand Rapids, Minn.	June 12
July 2	Santa Ana, Cal.	June 19
July 2	New Jersey	June 19
July 2	Greensburg, Ga.	June 19
July 2	Bemidji, Minn.	June 19
July 2	Burlington, N. J. Adv. June 12.	June 12
July 2	Hayes Center, Neb.	June 12
July 2	Albuquerque, N. M. Adv. June 19.	June 19
July 3	Beaver, Pa.	June 19
July 3	Pittsburgh, Pa.	June 19
July 3	Stockville, Neb.	June 12
July 5	Omaha, Neb.	June 12
July 5	Brunswick, Ga. Adv. June 5 and 12.	June 12
July 7	Indianapolis, Ind.	June 5
July 7	Leeburg, Fla.	June 19
July 7	Sanford, Fla.	June 19
July 7	Albert Lea, Minn.	June 19
July 7	Woodstown, N. J. Adv. June 19.	June 19
July 7	Riverside, Cal.	June 19
July 8	Pipestone, Minn.	June 19
July 8	Harrisonville, W. Va.	June 19
July 8	Kingston, N. C.	June 19
July 8	Elkins, Va. Adv. June 12 and 19.	June 12
July 9	Delaware	June 19
July 16	Springfield, O.	June 19
July 30	California	June 19

EXCAVATION AND DREDGING

June 21	Thornwell, La.	June 12
June 25	Jackson, Tenn.	June 12
July 1	Edwardsville, Ill.	May 15

INDUSTRIAL WORKS

June 20	Park Falls, Wis.	June 19
June 20	Sheboygan, Wis.	June 19
June 21	New York, N. Y.	June 19
June 24	Columbus, S. C.	June 19
June 26	Potsdam, N. Y.	June 19
June 30	Port Arthur, Ont.	June 12
July 1	Shawenegan Falls, Que.	June 12
July 1	Hastings, Minn.	June 19
July 9	Los Angeles, Cal.	June 19
July 15	Flushing, N. Y.	June 19
Aug. 1	Hastings, Minn.	May 15

BUILDINGS

June 23	Greensburg, N. Y.	June 19
June 23	New York, N. Y.	June 19
June 23	Duluth, Minn.	June 19
June 23	Camden, N. J.	June 12
June 23	Newark, N. J.	June 12
June 23	Brighton, Colo.	June 12
June 23	Englewood, Colo.	June 12
June 24	Springfield, O.	June 19
June 24	Ossining, N. Y. Adv. June 12.	June 12
June 24	Minneapolis, Minn.	June 19
June 25	Two Rivers, Wis.	June 12
June 25	Hartford, Conn.	June 19
June 25	Marshfield, Ore.	June 19
June 26	Detroit, Mich.	June 19
June 26	Moorhead, Minn.	June 19
June 26	San Jose, Cal.	June 12
June 27	Russell, Minn.	June 12
June 27	Lansing, Mich.	June 19
June 29	Pittsburg, O.	June 19
June 30	Ecorse, Mich.	June 19
June 30	St. Hilarie, Minn.	June 19
July 1	Austin, Minn.	May 22
July 1	Akron, O.	June 19
July 1	Wauwatosa, Wis.	June 19
July 1	Bimidji, Minn.	June 12
July 1	Middletown N. Y.	June 12
July 1	Youngstown, Alta.	June 12
July 1	Raymond, Alta.	June 12
July 1	Omaha, Neb.	June 19
July 1	Milledge, Ga.	June 19
July 2	Duluth, Minn.	June 19
July 2	Sterling, Wis. Adv. June 19.	June 19
July 2	Huntington, W. Va. Adv. May 29, June 5 and 12.	May 29
July 2	Fargo, N. D. Adv. June 5 and 12.	June 12
July 4	West Bethlehem, Pa.	June 12
July 5	Mountain Lake, Minn.	June 19
July 10	Blooming Prairie, Minn.	June 19
July 15	Fraserville, Que.	June 12
Aug. 1	Kenosha, Wis.	May 15
Aug. 1	Virginia, Minn.	June 19

FEDERAL GOVERNMENT WORK

Bids Close		See Eng. News-Record
June 20	Pump House—Washington, D. C.	June 19
June 23	Steel, Forgings, Castings, etc.—Wheeling, W. Va. Adv. May 29 to June 19.	May 29
June 23	Dredging—New York, N. Y. Adv. May 22 to June 19.	May 29
June 23	Road Work — Holbrook, Ariz.	June 12
June 23	Sewage Disposal System — Washington, D. C. Adv. June 5	June 5
June 23	Skeleton Steel Tower—Milwaukee, Wis. Adv. June 19.	June 19
June 24	Dredging—Portland, Me. Adv. May 29 to June 19.	May 29
June 25	Cell House—Spec. 3943—Cape May, N. J.	June 19
June 25	Painting Towers — Spec. 3925—Annapolis, Md.	June 19
June 25	War Heads and Detonator Storehouses—Spec. 3812—Pensacola, Fla.	June 19
June 25	Pipe System—Spec. 3961—Philadelphia, Pa.	June 19
June 25	Flood Lighting System — Spec. 3963 — Cape May, N. J.	June 19
June 25	Railroad Extension—Spec. 3947—Hampton Roads, Va.	June 19
June 25	Crane Runaway—Spec. 3678—New York, N. Y.	June 19
June 25	Piles and Lumber—New Orleans, La. Adv. May 29 to June 19	May 29
June 25	Cranes—Spec. 3933—New York, N. Y.	June 5
June 25	Elevators — Spec. 3934 — New York, N. Y.	June 5
June 25	Pattern Shop—Spec. 3478—Philadelphia, Pa.	June 5
June 25	Administration Building, Roads and Walks—Spec. 3922—San Diego, Cal.	June 5
June 25	Hospital — Spec. 3931 — Pearl Harbor, H. T.	June 12
June 25	Assembly Shop—Spec. 3927—Philadelphia, Pa.	June 12
June 25	Pipe Line—Spec. 3939—San Diego, Cal.	June 12
June 25	Rebuilding Shipbuilding Ways—Spec. 3590 — New York, N. Y.	June 5
June 25	Distributing System—Spec. 3921—San Diego, Cal.	June 5
June 25	Bulkhead — New Orleans, La. Adv. May 29 to June 19	May 29
June 25	Sprinkler System — Spec. 3954—Philadelphia, Pa.	June 19
June 25	Fire Escape—Spec. 3932—Philadelphia, Pa.	June 19
June 25	Radio Towers—Spec. 3965—San Francisco, Cal.	June 19
June 25	Extending and Altering Fire Alarm System—Spec. 3951—Coddington Point, R. I.	June 19
June 25	Extending and Altering Fire Alarm System—Spec. 3951—Coasters Harbor, R. I.	June 19
June 25	Extending and Altering Fire Alarm System—Spec. 3951—Newport, R. I.	June 19
June 25	Cranes — Spec. 3903 — Mare Island, Cal.	June 19
June 25	Buildings—Hangars—Roads and Distributing System—Spec. 3905 — Anacosta, D. C.	June 19
June 25	Cranes—Spec. 3946—Boston, Mass.	June 19
June 25	Buildings — Spec. 3952 — Yorktown, Va.	June 19
June 25	Power Plant—Spec. 3924—Indianhead, Md.	June 19
June 25	Storage Building — Spec. 3948 — South Brooklyn, N. Y.	June 19
June 25	Road Work—Spec. 3950—Great Lakes, Ill.	June 19
June 25	Fire Alarm System—Spec. 3960—Hampton Roads, Va.	June 19
June 25	Sewer—Spec. 3959—Key West, Fla.	June 19
June 25	Clearing, Repairing and Resurfacing Roads—Spec. 3971—Ft. Mifflin, Pa.	June 19
June 25	Water Supply System — Spec. 3964—Paris Island, S. C.	June 19
June 25	Wet Pipe System—Spec. 3957—Philadelphia, Pa.	June 19
June 25	Addition to Shipfitters Shop — Spec. 3920 — Boston, Mass.	June 19
June 25	Power House, Electric Generator Equipment and Fire Protection System — Spec. 3956—Key West, Fla.	June 19
June 25	Piping and Electric System —Spec. 3969—Indianhead, Md.	June 19
June 25	Power House—Spec. 3889—Montauk, N. Y.	June 19
June 25	Oil Burning Equipment—Spec. 3847—Key West, Fla.	June 19
June 25	Tank and Tower — Spec. 3915—Ft. Mifflin, Pa.	June 19
June 26	Buildings — Washington, D. C. Adv. June 19.	June 19
June 27	Air Compressors—Florence, Ala. Adv. June 12 and 19.	May 29
June 27	Dredging—Newport, R. I. Adv. May 29 to June 19.	June 5
June 27	Post Office — Houghton, Mich.	May 29
June 27	Coal—New Orleans, La. Adv. May 29, June 5, 12 and 19.	May 29
June 30	Building Wing — West Point, N. Y. Adv. June 5 to 19.	June 12
June 30	Revetment Repairs — Milwaukee, Wis.	June 12
July 1	Post Office—Towah, Wis.	June 5
July 1	Fuel Oil — Washington, D. C.	June 12
July 2	Dredging—New York, N. Y. Adv. May 29, June 5, 12 and 19.	June 5
July 2	Grading, Excavation and Filling—Spec. 3256—Puget Sound, Wash.	June 19
July 7	Steel—Philadelphia, Pa. Adv. June 5, 12 and 19.	June 5
July 7	Locks and Dam—Pittsburgh, Pa. Adv. June 12 and 19.	June 12
July 7	Gas Mains — Stapleton, N. Y. Adv. June 19.	June 19
July 8	Gate—Operating Machinery —Cincinnati, O. Adv. June 12 and 19.	June 12
July 8	Post Office — Pittsburg, Tex.	June 12
July 9	Post Office — Montevideo, Minn. Adv. June 5, 12 and 19.	June 12
July 10	Post Office—Vinton, Ia.	June 19
July 18	Silt Diversion Works—Los Angeles, Cal. Adv. June 19.	June 19

MISCELLANEOUS

June 20	Paving Brick—Carrick, Pa.	June 12
June 23	Dam—Morris Plains, N. J.	June 19
June 24	Parks, etc.—Boston, Mass.	June 19
June 24	Wharf—de Bellchase, Que.	June 19
June 24	Conduct Water Drainage Levees—Philadelphia, Pa.	June 19
June 24	Cast Iron Pipe—Brooklyn, N. Y.	June 19
June 25	Break Water—Port Arthur, Ont.	June 19
June 25	Brass Service Pipe Fittings, etc.—Baltimore, Md.	June 19
June 25	Cast Iron Pipes—Medford, Mass.	June 19
June 27	Power Plant Equipment — Los Angeles, Cal.	June 19
June 27	Auto Sprinkler and Oiler—Woonsocket, R. I. Adv. June 19.	June 19
June 30	Lever, Bridge — Junction, Kan.	June 12
June 30	Flood Prevention Project —Lebanon, Pa. Adv. June 12.	June 12
July 1	Boilers, Piping, etc.—Central Islip, N. Y. Adv. June 19.	June 19
July 2	Water Tube Boilers and Stokers and Radial Brick Chimney—Lorain, O.	June 12
July 15	Freight and Trailers, etc.—New York, N. Y. Adv. June 12 and 19	June 19

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Malone—City election soon to vote on $30,000 bonds to lay 2 mi. 12 in. pipe line from Shepherd Bridge to reservoir, to increase daily flow to 1,500,000 gal. A. Handley, clk.

N. Y., Old Forge—Village having tentative plans prepared and estimates made for extending water system, involving 2,500 ft. 8 in. water pipe for mains and 1,000 ft. 4 in. pipe for pumping into reservoir. H. C. Weller, village engr.

N. C., Statesville—City plans to build 2 filters and 1 clear water basin, lined with concrete, 750,000 gal. capacity. About $150,000. R. L. Greenlee, State sanitary engr.

Ala., Gadsden—City Council has plans prepared installing water mains in Oak Park addition to West Gadsden. About $14,000. E. Smith, city engr.

Mich., Dearborn—Village soon lets contract building watermains involving 4½ mi. ft. 6-10 in. c.i. pipe and necessary valves, fittings and hydrants.

Mich., Ecorse—Village having preliminary plans prepared by R. A. Murdoch, engr., Ecorse, building 500,000 gal. reservoir, tank, pump and extension to water mains.

Mich., Ferndale (Royal Oak P. O.)—Village soon lets contract furnishing labor and material laying 8500 ft. 8 in. and 10,000 ft. 6 in. c.i. water mains with necessary specials and fittings. About $90,000. G. Jerome, 1331 Majestic Bldg., Detroit, engr. Noted Oct. 3.

Mich., Pontiac—City voted $126,000 bonds to extend waterworks system. H. H. Barnett, city engr.

Wis., Eau Claire—City plans to improve waterworks system. Plans include new well, centrifugal pump, water wheel generator at pumping station and concrete flume. About $100,000. A. R. Garnock, 1000 Guardian Life Bldg., St. Paul, Minn., engr.

Minn., Annandale—See "Sewers."

Minn., Harmon—City soon lets contract building 10 x 40 ft. compressed air water tank and pump house. Druar & Smith, 513 Globe Bldg., St. Paul, engrs.

Minn., Hinckley—City plans to build addition to water and sewerage systems. About $55,000. L. P. Wolff, Guardian Life Bldg., St. Paul, consult. engr.

Minn., Hinckley—See "Industrial Works."

Minn., Hoffman—Bd. Educ. having plans prepared by F. Tustison, engr., 355 Auditorium Bldg., Minneapolis, for water supply system for high and grade school. About $10,000.

Minn., Wells—See "Industrial Works."

Mo., Cameron—City having plans prepared for improving filtration plant. Bonds for $35,000 voted for project. E. E. Harper, 2408 East 30th St., Kansas City, consult. engr.

Tex., Houston—City voted $25,000 bonds to extend waterworks system.

Okla., Garber—City soon lets contract building water tank, capacity 30,000-50,000 gals., and 100 ft. tower, also 2 wells, casing 36 in. and depth 21 ft. Well screens to be furnished by city. Black & Veatch, 507 Interstate Bldg., Kansas City, Mo., engrs.

Okla., Mounds—City soon receives bids extending waterworks and improving sewerage system.

Okla., Tulsa—City plans to build waterworks system; water to be taken from Spavinaw Creek. Total estimated cost, $4,853,020. Plans include solid masonry, rein.-con. or wooden dams, 30, 35 and 50 ft. high, and hydro-electric power house, cost $248,445. 42 in. c.i., rein.-con. or wooden stave pipe conduits, $2,900,405; three 20,000,000 gal. capacity reservoirs, $225,000; one 80,000,000 gal. capacity reservoir, $314,000; power plant, $225,000; pumping plant, $150,000; transmission lines, $360,000; engineering, $230,170; land and clearing, $150,000; right of way, $50,000.

Idaho, Buhl—City soon lets contract replacing and relaying sprinkling and fire hydrants, also 2021 ft. 6 in., 3858 ft. 4 in., 3725 ft. 8 in., and 2720 ft. 12 in. water mains. G. B. Brazeau, city clk.

Utah, Salt Lake City—City receives bids about July 1, building feeder water mains and rein.-con. water supply conduit from mouth Parley's Canyon to Northeast Bench. About $300,000. S. Q. Cannon, city engr.

Ariz., Mesa—City election July 8 to vote on $35,000 bonds to build extensions to waterworks system.

Ariz., Miami—City defeated $300,000 bonds to build waterworks system.

Ore., Salem—Clackamas Power & Irrigation Co., Clackamas, filed applications with H. Nunn, state highway engr., for development of 11,705 hp. plant, 1000 acre ft. of water to be taken from Clackamas River. Plans include 400 ft. dam, 103 ft. water fall, 6.6 mi. flume and ditch. About $1,250,000.

Waterworks (Continued)

Ore., Salem—Portland Ry., Light & Power Co., Electric Bldg., Portland, filed water application with H. Nunn, state highway engr., Salem, for storage of 40,400 acre ft. of water to be taken from Oak Grove Creek, also building reservoir. About $300,000.

Cal., Altadena—Rubio Canyon Land & Water Assn. plans to install pumping plant on Sacramento St. and lay pipe line to reservoir. About $10,000.

Cal., Lancaster—Bd. Educ., Los Angeles plans to form waterworks Dist. No. 4, embracing town of Lancaster, to include land, wells, pumping plant, mains, steel tower and tank. About $30,250. A. M. McPherrin, clk.

Ont., Owen Sound—J. Legate, chn. utilities comn., soon lets contract building rein.-con. slow sand filter at No. 1 Spring, Derby Twp. About $35,000. R. McDowell, engr. utilities comn.

Ont., Watford—City election June 30, to vote on by-law for $55,000 to build pump house, standpipe, pumping equipment and 4 and 6 in. watermains. W. S. Fuller, engr.

Alta., Calgary—City Council appropriated $273,316 bonds to build extension to gravity water system.

BIDS DESIRED

N. Y., Hoffman Island—Until June 23, by I. E. Coffer, health officer, Port of New York, Rosebank, S. I., building new well for water supply, Quarantine Sta. L. F. Pilcher, Capitol, Albany, state archt.; advertised in this issue.

N. Y., New York—Until June 25, by N. J. Hayes, comr. water supply, gas and electricity, Municipal Bldg., furnishing, delivering and laying water mains and appurtenances in Riverside Dr., West 134th and West 142nd Sts., Manhattan Boro. and in East 147th, East 170th, Amethyst, Emmett and Rosewood Sts., Matthews, Newton, Olinville and Rhinelander Aves., Crotona Parkway, Elsmere Pl. and Unionport Rd., Bronx Boro.

N. J., Salem—Until June 30, by city, building mechanical filtration plant including coagulating basin, chemical house, filter house and all appliances and appurtenances complete. W. E. Dunn, recdr.; advertised in this issue.

Pa., Bethlehem—Until June 23, by Bureau of Water, furnishing and installing 2,000,000 gal. capacity electrically driven centrifugal pump. R. L. Fox, city engr.; advertised in this issue.

Ill., Salem—Until July 1, by city, for completing mechanical gravity filter plant, consisting of 2 units with 300,000 gal. capacity each per day. Caldwell Eng. Co., Jacksonville, engr.; advertised in this issue.

Minn., Bemidji—Until June 23, by G. Stein, city clk., extending and improving waterworks system, involving 6710 lin.ft. 6-10 in. pipe and hydrants, pulling up and relaying 1200 ft. 4-6 in. pipe. About $20,000.

Minn., Milaca—See "Sewers."

Mont., Denton—Until July 15, by City Council, building 200,000 gal. reservoir, supply mains, distribution system and fire hydrants, involving 18,000 ft. 10-12 in. wood and 8000 ft. 6-8 in. c.i. pipe. Bonds for $50,000 voted for project. W. B. Saunders, Helena, engr. Noted May 22.

Ont., Timmins—Until June 24, by Sutcliffe & Neelands, engrs., New Liskeard, Ont., extending and improving waterworks system, involving 20,000 ft. 6-18 in. vitr. pipe, 8500 ft. 6-10 in. c.i. pipe, 91 manhole heads and covers. About $50,000. Noted Mar. 6.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—City let contract building portion of new high pressure system on Federal St., to C. & R. Constr. Co., Boston, $21,351. Work involves 4650 ft. 8-16 in. c.i. pipe, 5400 cu.yd. earth and 50 cu.yd. rock excav., 300 lb. steel, 300 cu.yd. concrete, etc.

★**Pa., Mont Alto**—State Dept. Health, Harrisburg, let contract building extension to water supply system at Pennsylvania State Sanitorium for Tuberculosis, near here, to W. M. Anderson, 600-612 Schuylkill Ave., Phila. About $31,759. Work involves 17,000 ft. 8-in. c.i. and 2500 ft. w.i. pipe. Noted May 15 under "Buildings —Harrisburg."

★**Mich., Grosse Pointe**—Village let contract furnishing material and laying 2120 ft. 6 in. c.i. pipe, etc., in University Pl., Kercheval Ave. and Cadieux Rd., to Cronin & Son, Grosse Pointe. About $5000.

★**Mont., Baker**—City let general contract improving waterworks and sewerage systems, to Gidney & Murphy, Minneapolis, Minn., $22,787; c. i. pipe, to Natl. Cast Iron Pipe Co., Chicago, $31,061, hydrants, to R. D. Wood, 400 Chestnut St., Phila., $3392. Noted Feb. 20.

★**Mont., Hardin**—City let contract laying 13,910 lin.ft. 4-6 in. Matheson pipe, 22 hydrants, necessary valves and fittings, to Yergey & Brandriff, Bozeman. About $24,000. Noted May 8.

★**Tex., Stamford**—City let contract building 2 reservoirs, furnishing material and laying 14 mi. pipe line from Brazos River to here, to Amer. Cast Iron Pipe Co., Birmingham, Ala., using Standard Bell and Spigot c.i. pipe on entire line. About $200,000. Incorrectly noted in our issue of June 5.

★**Ont., Sarnia**—City let contract building 900 ft. 24 in. steel intake pipe and converting present basins into sedimentation basins, to Dunbar & Sullivan, Windemere Ave., Detroit. About $35,000.

Sewers

PROPOSED WORK

Mass., Wellesley (Boston P. O.)—Metropolitan Water & Sewer Bd., Boston, had plans prepared for extending concrete trunk sewer 2 mi. About $225,000. F. D. Smith, 1 Ashburton Pl., Boston, engr.

Conn., East Lyme—White Beach Sanitorium, c/o S. J. Maher, 212 Orange St., New Haven, plans to build sewage disposal plant at sanitorium for tubercular children, here. Ford, Buck & Sheldon, 60 Prospect St., Hartford, engrs.

N. Y., Binghamton—Common Council adopted ordinances to build storm sewers in State and Mill Sts. and sanitary sewers in Broad Ave., Louisa, Clifford and Abbot Sts. About $80,000. U. E. Weller, city engr.

N. Y., Salamanca—See "Streets and Roads."

N. J., Camden—Dept. Highways soon lets contract laying 5300 ft. sewers and drains in Mechanic St. from 8th to 9th Sts. and Cooper St. from 12th St. to Delaware Ave. L. E. Farnham, city engr.

N. C., Statesville—City plans to build sewer in Main St., involving 15,000 ft. 8 in. rein.-con. pipe, 14,000 ft. 10 in. vitr. pipe and 15,000 cu.yd. excav. R. K. Greenlee, Statesville, engr.

S. C., Andrews—City plans to lay 4 mi. vitr. sewer mains in various streets, also build sewage disposal plant. About $50,000. Tomlinson Eng. Co., Loan & Exch. Bank Bldg., Columbia, engrs.

O., St. Paris—City soon receives bids building sewage disposal plant. Work involves rein.-con. septic tank and sand filter bed. About $10,000. P. Lethig, Springfield, engr.

O., Springfield—City soon lets contract laying 2945 ft. 30 in. vitr. sewer pipe in alley west of Fountain Ave. to McCreight St. About $15,555. O. E. Carr, city engr.

Mich., Dearborn—City having plans prepared by C. W. Hubbell, engr., 2348 Penobscot Bldg., Detroit, for 40,000 ft. 12, 15 and 18 in. vitr. storm lateral sewers.

Mich., Muskegon—B. H. Tellman, city recdr., soon lets contract furnishing labor and material building complete sewerage system in Dist. 28, southeastern section of city, involving 15,785 lin.ft. 10-24 in. and 6 mi. 8 in. vitr. pipe, together with specials, manholes, lampholes, etc.

Mich., Pontiac—City had plans prepared for sewer in Bagley St., involving 12-20 in. vitr. pipe and sewer lift in sump well. About $12,190. H. H. Barnett, city engr.

Wis., Oostburg—City having plans prepared by J. Donohue, engr., York Bldg., Sheboygan, excavating and laying storm and sanitary sewers in Main and 1st Sts. to city limits, involving 3000 ft. 10-12 in. vitr. pipe. About $25,000.

Minn., Annandale—G. G. Shierts, city clk., receives bids in July building sewerage and water systems. Druar & Smith, 513 Globe Bldg., St. Paul, engrs. Noted May 29.

Minn., Hinckley—See "Waterworks."

Kan., Pratt—City soon lets contract building sanitary sewers in Dist. No. 4, involving 23,400 lin.ft. 8 in. pipe. G. W. Ellis, Pratt, consult. engr.

Mont., Lewistown—City plans to build sewers in Storm Sewer Dists. Nos. 5 and 6. About $8000 and $62,000 respectively. R. P. Longshore, Lewistown, engr.

Mont., Scobey—City election June 30 to vote on $45,000 bonds to build 20,000 lin.ft. sewerage system. W. H. Saunders, Helena, engr.

Okla., Mounds—See "Waterworks."

Ariz., Mesa—City election July 8 to vote on $34,000 bonds to build sewerage system.

Ariz., Miami—City voted $125,000 bonds to build sanitary sewerage system. Olmsted & Gillelen, 1112 Hollingsworth Bldg., Los Angeles, engrs.

Ore., Portland—City council plans to build sewers in 59th Ave., S. E., and Knight St. from 44th St., S. E., to proposed sewer in East 39th St., East 38th St. from Everard St. to Harold Ave., 58th Ave., S. E., and Ramona Ave. from 44th St., S. E., to proposed sewer in East 39th St., 57th Ave., S. E. and Everard St. from 44th St., S. E., to proposed sewer in East 38th St., East 39th St. from Knight St. to proposed sewer in Everard St., including vitr. or cement pipe catch basins, manholes, sewer service pipes and branches. About $14,200. O. Laurgaard, city engr.

Cal., Bishop—A. D. Schively, town clk., rejected bids received June 2, building sanitary sewerage system and sewage treatment tank. About $35,000. New bids will soon be received. Olmsted & Gillelen, 1112 Hollingsworth Bldg., Los Angeles, engrs. Noted May 15.

Cal., Los Angeles—City voted $135,000 bonds to build sewerage system, including pumps, sewers, etc., in Wilmington Dist. W. T. Knowlton, City Engr.'s Office, engr. Noted Oct. 24.

Cal., Oakland—See "Streets and Roads."

Cal., Redwood City—City voted $25,000 for 340 lin.ft. 18 in. vitr. pipe outfall sewer; $60,000 for 7 rein.-con. bridges; $5000 for macadam pavement on Webster St.; $5000 for retaining wall on Maple Ave. and $25,000 for fire engine house. C. E. Dimmick, city engr. Noted May 1.

Ont., St. Catharines—City having plans prepared by W. P. Near, engr., City Hall, building sanitary sewers and sewage disposal plant. About $50,000.

Alta., Calgary—City Council appropriated $350,000 bonds for sewage disposal plant, $28,439 bonds for sewer in Centre St., and $16,000 bonds for sewer in Kilarny St.

BIDS DESIRED

O., Barberton—Until June 24, by G. Seiberling, dir. pub. serv., building West End Sanitary Lateral Sewers, involving 66,000 lin.ft. 6-15 in. sewer, excav., manholes, house connections, repaving and other appurtenances, and 2 ejector stations complete with ejector equipment. R. W. Pratt, Hippodrome Bldg., Cleveland, consult. engr. Noted May 29.

O., Lancaster—Until June 25, by Dir. Pub. Serv., building South Broad St. sewer, estimated cost $11,069; also paving Park St., cost $7903. W. W. Graf, city engr.

Mich., Detroit—Until June 27, by Dept. Pub. Wks., furnishing all labor and material (except manhole rings and covers) building and finishing complete together with backfilling, 9982 ft. Joy Rd. Pub. Sewer in Daily and Highfield Aves., Joy Rd. and in private property in lines extended of Lawton Ave. and proposed Atkinson Ave. from Livernois to Linwood Aves., brick or monolithic concrete,; 3663 ft. in Sect. 5 Lynch Rd. Sewer in McLean, Halleck and Joseph Campau Aves. from Moran St. to Davison Rd., brick and monolithic concrete; 3820 ft. Sect. 6 Lynch Rd. Sewer in Davison Rd. from Joseph Campau Ave. to Grand Trunk R.R., brick, monolithic concrete or rein.-con. (This section to be tunnelled in Davison Ave. from Grand Trunk R.R.); 4075 ft. Sect. 3 Linwood Ave. in Linwood Ave. from Davison to Fenkell Aves., brick or monolithic concrete. C. W. Hubbell, city engr.

Wis., Sheboygan—Until June 30, by C. U. Boley, engr., City Hall, excavating and laying 4950 lin.ft. 10 in. pipe sewer in South 15th St. from Kentucky to Indiana Aves., cost $15,000; 7000 lin.ft. 10 in. vitr. pipe sewer in South 17th St. to Georgia Ave., $20,000.

Ia., Sidney—See "Streets and Roads."

Minn., Albert Lea—See "Streets and Roads."

Minn., Duluth—See "Streets and Roads."

Sewers (Continued)

Minn., Duluth—Until June 24, by J. A. Farrell, city comr., laying storm sewers in Woodland and Wallace Aves. About $40,288. Work involves 9580 ft. 12-40 in. concrete pipe. L. Ayers, city engr.

Minn., Milaca—Until July 16, by E. A. Magnuson, city clk., building sewer and water mains, involving 2972 lin.ft. 15-18 in. sewer pipe and 1572 lin.ft. 4-6 in. c. i. water mains. J. B. Gray, Milaca, engr.

Minn., North Mankato—Until July 14, by village, building sewerage system, involving 24,100 ft. 8-15 in. vitr. clay pipe, 24,200 ft. trench, 5-16 ft. deep, 3 pumping stations or lifts, 75 manholes and two 14 in. valves; advertised in this issue.

N. M., Albuquerque—See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Conn., Stratford (Bridgeport P. O.)—Bd. Sewer Comrs. received lowest 3 bids June 9, furnishing material and labor to complete 4 mi. sewers, 8-24 in. diameter from N. Mangine, 17 Cliff Ave., Yonkers, N. Y., $90,144; Ambrosio & Delbalso, 1737 Main St., Bridgeport, $97,903; Forgione & Romano Co., 811 Fidelity Bldg., Portland, Me., $99,604. Noted May 15.

★**Pa., Mont Alto**—Dept. Health, Harrisburg, let contract furnishing labor and material and building and equipping extensions to sewage disposal plant at State Sanitorium for Tuberculosis, near here, to Simpson & Brown, 90 West St., New York City, $23,031. Work involves 175 cu.yd. Class "A" and 50 cu.yd. Class "B" reincon., 3¼ tons steel, 3000 sq.ft. expanding metal, 350 cu.yd. broken stone, 375 ft. 6-12 in. terra cotta pipe and specials, 355 ft. 6-12 in. c.i. pipe and specials, 400 ft. 4-8 in. w. i. pipe and specials, 16 gate valves, etc. Noted May 15 under "Buildings—Harrisburg."

★**Pa., Pittsburgh**—City let contract to M. O'Herron Co., South 1st and McKean Sts., laying sewers in Harbor. Hetzell Asylum, Bader and Admiral Sts., and Fall Way, $10,671; in Hillside St., $2412. Noted June 12.

★**Pa., Wilkinsburg**—Boro. let contract building concrete culvert to enclose Nine Mile Run, to Federal Constr. Co., Pittsburgh. About $15,150. Noted June 12.

O., Cleveland—City received bids laying 30 ft. 12 in. vitr. pipe and 660 ft. 7 ft. 10 in. and 25 ft. 6 ft. 9 in. brick sewers in Russel Rd. from Wade Park Ave. north, from Hanson Co., 345 The Arcade, $20,249; Gallagher Burke Co., 1339 Irene Ave., $22,177; Gawne Constr. Co., 10510 Euclid Ave., $22,235.

O., Cleveland—City received bids building (a) 815 ft. Nos. 2 and 3 C brick sewers in St. Clair Ave. from Woodworth Ave. to East 138th St., involving 865 ft. 12-24 in. vitr. pipe, etc., and (b) 1600 ft. Nos. 3-6 C brick sewers in St. Clair Ave. from East 154th St. to London Rd., involving 1055 ft. 18-30 in. vitr. pipe, from River Constr. Co., 12109 Mayfield Rd., (a) $18,658; W. P. Gibbons, 340 Leader-News Bldg., (a) $18,718, (b) $38,584; Brookside Constr. Co., 3905 West 20th St., (a) $19,177; Randell & Cooper, Lorain, (b) $37,216; Gallagher-Burke Co., 1339 Irene Ave., (b) $37,171. Noted June 5.

★**Mich., Pontiac**—City let contract building Pontiac sewage treatment works involving 2052 lin.ft. outfall sewer, grit chamber, 2 story settling tanks, etc., to Pittsburgh Constr. Co., Diamond Bank Bldg., Pittsburgh, Pa., $295,796. Noted May 22.

★**Minn., Biwabik**—City let contract building storm sewers, to Lawrence & McCann, Eveleth, $14,507.

★**Mont., Cut Bank**—City let contract building sewerage system, to Two Miracles Co., 437 Ford Bldg., Great Falls, $42,847. Noted May 29.

★**Okla., Tulsa**—City let contract building sanitary sewers in Kendall Addition, Dist. 153, to Tibbetts & Pleasant, 204 Daniels Bldg., $131,216.

★**Okla., West Tulsa**—City let contract building submain outlet in new sewerage system, to Comstock & Hansom, 431 Iowa Bldg., $31,188.

★**Wash., Seattle**—Bd. Pub. Wks. let contract building 2 mi. trunk sewer and outfall in 42nd Ave. S., et al., or Empire Way, et al., involving 12,983 ft. rein.-con. pipe, to Colson Constr. Co., Seattle, $362,262. Noted May 8.

Ore., Portland—City received bids building sewers in (a) East 74th, 75th, 76th and Halsey Sts., (b) Lambert Ave., (c) Malden Ave., (d) East 78th St., (1) vitr., (2) cement, from E. Sandberg, (a1) $14,561, (b1) $2987, (c1) $2982; Jacobsen-Jensen Co., 407 Stanton St., (a2) $16,599, (b2) $3626, (c2) $2987, (d2) $1586; Azar & Co., (b1) $2836, (c1) $2495, (d1) $1323. Noted May 1.

★**Cal., Riverside**—City let contract building sewers in Drainage Impvt. Dist. No. 3, to Wattson & Wattson, 4907 Melrose Ave., Los Angeles, $34,872. Work involves 17,514 ft. 8-24 in. tile block, 18 concrete manholes, 9 sewer inlets and 1 outlet.

Bridges

N. Y., Lyons—E. S. Walsh, supt. pub. wks., Capitol, Albany, soon receives bids building plate girder bridge over Lock 28-A. About $50,000.

N. Y., Syracuse—See "Industrial Works."

N. J., Newark—Essex and Hudson Counties have retained F. A. Reemer, engr. Essex Co., T. J. Wasser, engr. Hudson Co., and H. W. Hodge, of Boller, Hodge & Baird, 149 Bway., New York City, to have charge of the construction of a bridge between here and Bayonne, to be 2 mi. long. Cost will exceed $1,000,000. H. A. Meade, ch. engr. of Pub. Utilities Comn., will also be on the com. Noted Mar. 6.

Va., South Hill—South Hill—Henderson Bridge Corp. soon lets contract building 720 ft., steel and cement bridge, here. About $50,000. W. Hunter, South Hill, secy.

W. Va., Barker—See "Railways."

W. Va., Fairmount—Baltimore & Ohio, Baltimore, Md., soon receives bids building steel bridge over Monongahela River, here, approach on solid concrete and paved with wooden blocks. About $30,000. M. A. Long, Baltimore, Md., engr. Noted Jan. 10.

N. C., Troy—State Highway Comn., Raleigh, soon receives bids building steel bridge here. About $80,000. W. S. Chief, Raleigh, engr.

S. C., Lancaster—Comrs. Lancaster Co. plan to build one 50 ft. and one 90 ft. rein.-con. bridges over Waxhaw Creek and Cane Creek slough, 16 ft. wide. About $15,000. J. R. Pennell, Commercial Bank Bldg., Columbia, engr.

S. C., McCormick—Supervs. McCormick Co. plan to build 41 ft. rein.-con. girder bridge with center pier, over Hard Labor Creek, 16 ft. wide. About $22,545. J. R. Pennell, c/o State Highway Dept., Columbia, engr.

Wis., Prairie du Sac—Village plans election June 24, to vote on proposition to build 1474 ft. steel bridge over Wisconsin River between Prairie du Sac and West Point. About $144,000; cost to be borne by village, Sauk and Columbia Counties and West Point Twp.

Minn., Minneapolis—Hennepin Co. having plans prepared for bridge over Lake Nakomis. About $200,000. E. E. Terrell, co. engr.

Mont., Great Falls—Comrs. Cascade Co. receive bids in about 30 days, building 970 ft. rein.-con. bridge over Missouri River, on 1st Ave., 42 ft. wide, cost $235,000; 1200 ft. rein.-con. bridge, over Missouri River on 10th St., $230,000. P. D. Pratt, c/o State Highway Dept., Helena, engr. Noted Oct. 10.

Utah, Salt Lake City—City receives bids about July 1, building 3 bridges over Jordan River and Surplus Canal. About $35,000. S. Q. Cannon, city engr. Noted Jan. 30.

Cal., Redwood City—See "Sewers."

Ont., Owen Sound—R. McDowell, engr. Grey Co., soon lets contract for following bridges and culverts: 19 pipe culverts on Garafraxa Rd. from Mt. Forest to Durham, 3 rein.-con. arches; 12 pipe culverts on Garafraxa Rd. from Chatsworth to Owen Sound, 1 rein.-con. arch; 13 pipe and 5 box culverts on St. Vincent Rd. from Owen Sound to Woodfords and 4 rein.-con. arches; 14 pipe and 10 box culverts on Toronto and Sydenham Rds. from Dundalk to Flesherton, 4 rein.-con. arches; box culverts at Holstein and Ceylon; rein.-con. arch with 40 ft. span at Elmwood; rein.-con. arch over Pretty River, Collingwood Twp.; flat top arch at Feversham; steel bridge with 50 ft. span and concrete abutments at Holland. About $45,000. J. Johnston, co. rd. supt.

Ont., Parry Sound—Town voted in favor of by-law for $15,000 to build bridge with 2 steel spans, center pier and 2 concrete abutments. C. H. and P. H. Mitchell, Bank of Hamilton Bldg., Toronto, engrs.

Man., Springfield—H. C. Christopherson, secy. municipality Oakbank, soon lets contract building concrete bridge with 20 ft. span over Edies Creek, to consist of 2 rein.-con. headwalls, 4 headwalls for steel culverts and 3 rein.-con. culverts with 30 ft. spans.

BIDS DESIRED

Connecticut—See "Streets and Roads."

N. Y., Elmira—Until July 7, by Bd. Pub. Wks., building 830 ft. concrete bridge, 30 ft. high, consisting of 8 arches, over Chemung River on Main St. L. C. Andrew, clk.; advertised in this issue.

N. Y., Riparius—Until July 10, by B. Glassbrook, clk. Warren Co. bd. supervs., Lake George, building New Riverside Bridge over Hudson River here, between Chester and Johnsburgh Twps., one 300 ft. clear through truss steel span, 19 ft. clear roadway of wood block pavement, with live road capacity of 1235 lbs. per foot of bridge or 15 ton road roller, plus 25% impact, new concrete abutments and wing walls are to be built of 3rd class concrete, bridge to be built on upstream or north side of existing suspension bridge. About $49,750; advertised in this issue.

Pa., Leetsdale—Comrs. Allegheny Co. (Pittsburgh), cancelled bids building Bridge No. 1 over Sewickly Creek, between Allegheny and Beaver Counties, new bids now being received. Noted May 8.

Pa., Mercer—Until June 23, by Comrs. Mercer Co., building substructure and superstructure of Jewell Bridge, concrete arch; Beerman Bridge, Otter Creek Twp., concrete slab; Campbell Bridge, Wolf Creek Twp., concrete slab; also placing concrete flooring and encasing superstructure of Craig Bridge, Fairview Twp., and Frampton Bridge, Pymatuning Twp. M. M. Simons, clk.

Ga., Augusta—Until June 23, by Comrs. Richmond Co., building 2 rein.-con. pile and slab bridges over Spirit and Little Spirit Creeks, rein.-con. abutments, piles and deck slabs. Work involves 750 cu.yd. wet and 380 cu.yd. borrow excav., 223 cu.yd. Class A concrete for two spans, 1242 lin. ft. 14 x 14 in. piles, 20, 220 lb. steel, 1400 ft. hog wire, etc.

Ga., Monroe—Until July 7 (change of date), by Comrs. Walton and Oconee Counties, building bridge with 4 steel spans, at Carithers Mills, 11 mi. from here. Garrett & Slack, Bell Bldg., Montgomery, Ala., engrs. Noted May 8.

Michigan—Until June 25, by F. F. Roger, comr. state highways, Lansing, furnishing material and labor for building Trunk Line Bridge No. 252 over Paw Paw River, steel truss, 75 ft. long, 24 ft. wide, rein.-con. abutments, 12 ft. high, involving 439 cu.yd. plain concrete, Watervliet Twp.; No. 170, over White River, Reed Twp.; No. 239 Hesperia Twp., Oceana Co.; No. 103 over Baltimore River, Standard Twp., Ontanogan Co.

Mich., Port Huron—See "Streets & Roads."

Wis., Menasha—Until June 24, by City Council, building 430 ft. rein.-con. arch bridge over Fox River at Washington St., 59 ft. wide. Parsons & Obert, 627 M. & M. Bank Bldg., Milwaukee, consult. engrs.; advertised in this issue. Noted May 29.

Ia., Cedar Rapids—Until July 15, by City Council, building 6 span rein.-con. arch highway bridge over Cedar River at its intersection with 1st Ave., 700 ft. long, 90 ft. wide, including all appurtenances, etc. L. J. Storey, city clk.; advertised in this issue. Noted Dec. 19.

Ia., Pocahontas—Until July 2, by Bd. Supervs. Pocahontas Co., building 25 x 34 ft. concrete deck girder, 17 ft. concrete abutments, 20 x 24 ft. skew concrete slab, 12 ft. abutments, 20 x 24 ft. skew concrete slab, 13 ft. abutments, 16 x 20 ft. concrete slab, 14 ft. abutments, 25 x 32 ft. I beam with concrete floor and handrails, 14 ft. concrete abutments; also removing and placing on pile abutments one 16 x 55 ft., two 16 x 45 ft., one 16 x 40 ft., and one 16 x 35 ft. light steel pony trusses; advertised in this issue.

Minn., Bemidji—See "Streets and Roads."

Minn., Duluth—Until June 23, J. A. Farrell, city comr., building 250 ft. triple span concrete bridge, at Chester Park, 40, 54

Bridges (continued)

and 90 ft. spans, 38 ft. roadway, with two 25 ft. sidewalks. About $37,653. Work involves 2000 cu.yd. rein.-con., 1000 cu.yd. concrete and 37 tons steel. E. K. Coe, city Eng.'s Office, engr.

Minn., Mora—Until June 30, by A. V. Sander, and Kanabec Co., building Bridge No. 3005 on State Rd. No. 1, 5, 30 ft. rein.-con. through girder, 18 ft. roadway on rein.-con. abutments, 14 ft. from top of curb to bottom of footings. About $10,000. R. G. Streetley, Mora, engr.

Minn., Princeton—Until July 14, by W. Peltier, aud. Millelacs Co., building 60 ft. concrete and steel bridge over west branch Rumsey River, 18 ft. roadway, concrete abutments. About $10,000. McCabe & McCabe, 602 Metropolitan Life Bldg., Minneapolis, engrs.

Wyo., Lander—Until June 23, by State Highway Comn., Cheyenne, building two 125 ft. steel span bridges over Wind River, on Lander-Dubois Rd., Fremont Co.

Wyo., Moorcroft—Until June 23, by State Highway Comn., Cheyenne, building one 60 ft. steel span bridge over Belle Fourche River, north of here, Crook Co.

Okla., McAlester—Until July 7, by W. J. Kindrick, clk. Pittsburg Co., building 345 ft. steel bridge over Gaines Creek, consisting of three 118 ft. spans, 18 ft. roadway; advertised in this issue.

Wash., Richland—Until June 23, by State Highway Bd., Olympia, building 190 ft. steel span bridge over Yakima River, near here, Benton Co. J. Allen, state highway engr.

Ont., Toronto—Until June 28 by A. F. Stewart, ch. engr., Canadian National Rys., 27 Wellington St., E., building concrete culverts and bridge abutments between mileage 56, Peffelaw, and 94, Sparrow Lake on Muskoka Subdivision, about $21,000; also concrete culverts, abutments and piers between mileage 82, Porlock and 108, Coniston, Sudbury Subdivision, about $32,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Stratford** (Bridgeport P. O.)—State Highway Comn., Hartford, let contract building 864 ft. concrete bridge over Housatonic River between Stratford and Milford Twps., Fairfield and New Haven Counties, main structure to be 100 ft. clear span, 60 ft. wide, 5 arches, 2 girder approach spans about 52 ft. long, to be paved, to F. Stuart & Sons, Newtonville, Mass., $929,435 without steel draw.

★**Virginia**—State Highway Comn., Richmond, let contract building bridge over Seneca Creek near Michell's Mill and one over Lime Rock Branch, near Lawyer's Sta., Campbell Co., also one over Indian Creek near Copper Valley, Floyd Co., all rein.-con., to R. A. Figgatt, Roanoke, $12,811.

★**W. Va., Danville**—Comrs. Boone Co. (Madison) let contract building steel highway bridge over Little Coal River, here, two 126 ft. spans, 16 ft. wide, to Roanoke Iron & Bridge Co., Roanoke, Va., $13,430. Noted May 22.

★**W. Va., Madison**—Comrs. Boone Co. let contract building steel highway bridge over Coal River, here, two 105 ft. spans, 16 ft. wide, to Roanoke Iron & Bridge Co., Roanoke, Va., $10,840. Noted May 22.

★**Mich., Detroit**—City let contract building 40 ft. clear span rein.-con. arch bridge, 34 ft. roadway with abutments 10 ft. 6 in. high with 5 ft. footings supported on 60 wooden piles, and 170 ft. rein.-con. retaining wall, 7 ft. high with 6½ ft. footing and gas pipe hand rail, to Corrick Bros., 507 Owen Bldg., $19,150. Noted June 12.

★**Mich., Flint**—City let contract building 70 ft. rein.-con. bridge over Theat Creek on 2nd St., 26 ft. wide, to Price Bros. Co., East Jordan, $23,500. Noted May 15.

★**Que., Marleville**—Municipal Council let contract building iron bridge, to La Compagne de Constr. Co., St. Ours. About $21,000.

Que., Yamachiche—Municipal Council received bids building concrete and steel bridge over Yamachiche River, from L. A. Beauchemin, Montreal, $12,248; Vaillancourt & Gauthier, Yamachiche, $12,765; Bourassa & Bellerive, Three Rivers, $13,954. Noted May 29.

★**Ont., Arthur**—Bowman & Connor, engrs., 31 Queen St., Toronto, let contracts building bridges for Wellington and Peel Counties as follows: Cormack Bridge, to C. J. Callahan, Arthur, $2224; Parkers and Hagarty bridges, to P. McGivney, Arthur, $792 and $620, respectively; O'Donnell and McNab bridge, to J. Langdon, Arthur, $1000; Bethany and Roy Bridges, to E. J. Marlin, Elmira, $1590; Shantz Bridge, to J. Wilkinston, Morriston, $825; Caldwell Bridge, to C. Mattaine, Caldwell, $1180; McConnell Bridge, to E. Simmons, McConnell, $625; Peel Twp. Bridge, including abutments, to Standard Steel Constr. Co., Port Robinson, $6437, all concrete. Noted May 15.

Structural Steel

PROPOSED WORK

Va., South Hill—See "Bridges."

Mich., Port Huron—See "Miscellaneous."

Wis., Prairie du Sac—See "Bridges."

Ont., Toronto—See "Buildings."

Reinforced Concrete

PROPOSED WORK

Ill., Chicago—See "Buildings."

Ont., Owen Sound—See "Waterworks."

Ont., Owen Sound—See "Bridges."

BIDS DESIRED

Wis., Menasha—See "Bridges."

Minn., Duluth—See "Bridges."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Cambridge**—See "Industrial Works."

★**Mass., Newton** (Boston P. O.)—See "Industrial Works."

★**N. Y., New York**—See "Industrial Works."

★**Pa., Pittsburgh**—See "Industrial Works."

Md., Westport (Baltimore P. O.)—See "Miscellaneous."

Virginia—See "Bridges."

★**Ont., Arthur**—See "Bridges."

Streets and Roads

PROPOSED WORK

Mass., Boston—City plans to pave Columbus Ave. from Center to Washington Sts., cost $59,600; Center St. from Elliott to Allandale St., $56,700; Tremont St. from Dover to Northampton Sts., $152,000; Newton St. from Albany St. to Shawmut Ave., $15,500, all asphalt; Cambridge St. from Brighton Ave. to Henshaw St., bituminous macadam, $81,200; Kilby St. from Water to Mill Sts., $20,000, Washington St. from Beach across Eliot St., $5300; East 4th St. from K St. across P St., $71,000; Beacon St. from Massachusetts Ave. to Ralph St., $44,000, all wood block; Beverly St. from Washington to Causeway Sts., $24,100; Cambridge St. from North Russell to Charles Sts., $36,100; Federal St. from Milk St. to Dewey Sq., $20,000; Congress St. from State to Milk Sts., $45,700, Friend St. from Traverse to Causeway Sts., $31,400, Main St. from City Sq. to Alford St., $171,500, East 1st St. from Dorchester to Summer Sts., $22,300, Washington St. from Archdale Rd. to Ashland St., $81,000, all granite; Newbury St. from Arlington to Fairfield Sts., $47,600, Exeter St., $65,000, both bitulithic. T. F. Sullivan, comr. pub. wks.

Mass., Chicopee—City plans to pave Montgomery and East Main Sts. About $42,000. D. P. Coakley, mayor.

Mass., Medford (Boston P. O.)—City had plans prepared for paving and building curbs on Main and Grove Sts. and Medford Sq. Estimate cost paving, $35,000, curbing $32,000. F. Charnock, city engr.

Mass., West Springfield—Town appropriated $20,000 for concrete highway on Riverdale St. F. H. Sibley, clk.

Conn., Danbury—City having plans prepared for paving various streets with sheet asphalt on concrete foundation and napped and reclipped granite blocks on concrete foundation. Election will be held to vote on $100,000 bonds. C. D. Pollock, 13 Park Row, New York City, engr.

N. Y., Mechanicsville—City election July 8, to vote on $36,000 bonds to pave various streets. C. Hicks, city engr.

N. Y., Salamanca—Common Council rejected bids paving Front and Kent Aves., High, Washington and Linden Sts.; also building sewers in Washington, Center, East and Clinton Sts. Work will be readvertised. C. C. Cheney, city engr.

N. Y., Syracuse—City soon receives bids paving South Ave. from West Onondaga to Cortland Sts., cost $31,000; South West St. from Seymour to Shonnard Sts., $2700; Cortland Ave. from South Salina to Midland Aves., $24,000; Graves St. from Douglas to Highland Sts., $2700; H. C. Allen, city engr.

N. Y., Syracuse—Common Council authorized $140,000 bond issue to resurface Walton St. from South Clinton to South Franklin Sts., College Pl. from University Pl. to Euclid Ave., Bellevue Ave. from Midland to South Aves., Wolf St. from North Salina to North 7th Sts., South West St. from Gifford St. to Erie Canal, Euclid Ave. from Lancaster to Westcott Sts., Irving Ave. from East Genesee to Harrison Sts., East Adams St. from South Salina to South State Sts., Leavenworth Ave. from West Genesee to Park Sts., East Fayette St. from Warren to Montgomery Sts., and Oak St. from James St. to Highland Park. H. C. Allen, city engr.

N. Y., Watertown—City having plans prepared for 24 ft. concrete pavement on Hewitt St. and Walden Ave., cost $13,000; South Massey St. from Ives St. to city limits and portion of Pearl St., cost between $15,000 and $18,000. E. W. Sayles, city engr.

N. J., Trenton—City plans to widen West State St. from Sterling alley and South Willow St. to Front St. About $87,000. J. R. Fell, 134 North Clinton Ave., engr.

Pa., Bellevue (Pittsburgh P. O.)—Boro plans to grade, pave and curb various streets, vitr. brick. About $100,000. P. H. Martin, 4th Ave., Pittsburgh, engr.

Pa., Kittanning—Armstrong Co. voted $1,000,000 bonds to improve roads. Noted May 8.

Pa., Pittsburgh—City Council plans to grade, pave and curb Veronica St. from Sundeman St. to Straubs Plan of Lots, $11,400; Armitage Way from North Fairmount St. to distance 216 ft. easterly, $4000; St. Martins St. from Birmingham to Monastery Sts., $32,000; Melwood St. from Ridgeway to Denver Sts., $90,000; also reimproving and reestablishing grades on Sylvia Ave. from Taft to Gearing Aves., $26,700. T. Reed, City County Bldg., engr.

Pa., Scranton—City Council passed ordinance to grade, pave and curb Penn Ave. from New York St. to Sunset St., in 13th And 2nd Wards, sheet asphalt and stone blocks on concrete base. About $35,935. W. A. Schunk, city engr.

W. Va., Charleston—Kanawha Co., Malden Dist., plans election soon to vote on $100,000 bonds to improve roads. F. G. Burdette, Charleston, engr.

W. Va., Clay—Comrs. Clay Co. having plans prepared grading and draining 4 mi. Middle Creek Rd., 18 ft. wide, cost $10,000; 13 mi. Elk River Rd., 12 ft. wide, $10,000. E. Carr, Clay, engr.

W. Va., Hinton—Summers Co., Jumping Branch Dist. voted $30,000 bonds and soon receives bids for improving roads. H. L. Batten, Hinton, engr.

W. Va., Keyser—Mineral Co., Elk Dist., voted $137,000 bonds and soon receives bids building roads. E. Smith, Piedmont, engr. Noted Apr. 10.

W. Va., Madison—Comrs. Boone Co. having plans prepared grading 5 mi. Danville-Peytona Rd., 20 ft. wide, involving 60,000 cu.yd. excav. About $66,000. S. E. Bradley, Madison, engr.

W. Va., Marlinton—Comrs. Pocahontas Co. rejected bids building 2.25 mi. Marlinsbottom Turnpike, 16 ft. wide, involving 22,110 sq.yd. waterbound macadam using local limestone. About $26,000. F. Baxter, Marlinton, engr. Noted May 22.

W. Va., Moundsville—Marshall Co., Cameron Dist., plans election soon to vote on $220,000 bonds to improve roads. S. H. Bonar, Moundsville, engr.

W. Va., Wayne—Comrs. Wayne Co. soon receive bids grading, draining and paving 4 mi. Twelve Pole Valley Rd., grading 26 ft. wide, surfacing, 16 ft. wide, brick or concrete. About $100,000. H. A. Levering, Ceredo, engr.

W. Va., Webster Springs—Comrs. Webster Co. soon receive bids grading 4 mi. Cowan Webster Springs Rd. About $24,000. P. B. Cogar, Webster Springs, engr.

North Carolina—State Highway Comn., Raleigh, soon receives bids for paving 6.9 mi. Raleigh-Cary Rd., Wake Co. About $50,000. C. M. Miller, Raleigh, engr.

North Carolina—State Highway Comn., Raleigh, soon receives bids for sandclaying 73 mi. highway from here to Albermarle. About $200,000. W. S. Fallis, Raleigh, engr.

Streets and Roads (Continued)

N. C., Raleigh—City plans to pave 5 mi. Bloodworth, Fayetteville, South and Saunders Sts. Cost between $40,000 and $50,000.

S. C., Anderson—Comrs. Anderson Co. plan to grade, drain and surface 240 mi. roads, concrete. Bonds for $1,400,000 voted for project. W. A. Sanders, Anderson, engr. Noted Mar. 20.

S. C., Columbia—Columbia Ry., Gas & Electric Co., Arcade Bldg., plans to pave 14,000 sq.yd. between double street car tracks, probably concrete, 20 ft. wide. V. E. Wright, genl. mgr. Tomlinson Eng. Co., Loan & Exch. Bldg., engrs.

S. C., Edgefield—Comrs. Edgefield Co. soon receive bids grading, re-locating, draining and surfacing 8.42 mi. Dixie Highway from Edgefield to Turkey Creek, 30 ft. wide. About $35,062. J. R. Pennell, c/o State Highway Dept., Columbia, engr.

S. C., Greenville—Comrs. Greenville Co. plan to resurface 3.55 mi. Dixie Highway, 30 ft. wide. About $26,763. J. W. Norwood, chn. J. R. Pennell, c/o State Highway Dept., Columbia, engr.

S. C., Greenwood—Comrs. Greenwood Co. plan to relocate, grade, drain and surface 20 mi. Dixie Highway, from here to Edgefield Co., 30 ft. wide. About $40,844. J. R. Pennell, c/o State Highway Dept., Columbia, engr.

S. C., Laurens—Comrs. Laurens Co. soon let contract relocating, grading, draining and surfacing with top soil, 17 mi. road from here to Princeton, 28 ft. wide. About $58,000. N. C. Hughes, Jr., County Court House, engr.

O., Dayton—City soon lets contract paving 2000 ft. 3rd St. from Perry to St. Clair Sts., 60 ft. wide, involving 13,400 sq.yd. wood block, 4200 lin.ft. granite curbing, 2000 sq.ft. 6 in. cement sidewalks, estimated cost $112,500; 1300 ft. Louie St. from Norwood to Washington Sts. and 350 ft. Norwood Ave. from 5th to Louie Sts., 40 ft. wide, involving 7400 sq.yd. brick block and 3300 lin.ft. granite curbing, $450,000 and $11,000 respectively. F. O. Eichelberger, city engr. Noted May 1.

Ind., Boonville—City plans to build 6 mi. concrete sidewalks.

Ind., Indianapolis—Bd. Pub. Wks. soon lets contract resurfacing 3584 ft. South West St. from South to Morris Sts., 40 ft. wide, involving 15,929 sq.yd. vitr. brick, wood block, asphalt or bituminous concrete, 350 lin.ft. reset curbing, and 940 lin.ft. straight curbing, cost $36,015; and 3722 ft. Michigan St. from East St. to Indiana Ave., 40 ft. wide, 16,542 sq.yd. vitr. brick, wood block, asphalt or bituminous concrete, 7129 lin.ft. concrete curbing and guttering, $61,592. F. C. Linginfelter, city engr.

Ind., Indianapolis—Bd. Pub. Wks. soon receives bids resurfacing 870 mi. Ohio St. from Senate Ave. to West St., 40 ft. wide, involving 3866 sq.yd. vitr. brick, wood block, asphalt or bituminous concrete. About $14,450. F. C. Linginfelter, city engr.

Ind., Indianapolis—City soon receives bids grading roadway of Cornell St. from 23rd to 27th Sts., resurfacing Merrill St. from Miridian to Union Sts. with wood block, asphalt, bituminous concrete or brick. F. C. Linginfelter, city engr.

Ind., Indianapolis—Comrs. Marion Co. soon let contract grading, draining and paving 11,016 ft. English Ave. from Grace St. to Brookville Rd., 60 ft. wide, involving 73,440 sq.yd. concrete. About $87,638. J. J. Griffith, co. engr.

Mich., Detroit—City soon lets contract paving Moran St. with sheet asphalt on 6 in. concrete foundation, Berea, Medina or other curbstone. Arizona, Brandon, Garfield, Minnesota, Maxwell, Philadephia, Richter, Solvay and Walbridge Aves. with asphaltic concrete on 6 in. concrete foundation, Berea, Medina or other curbstone, 24 and 26 ft. wide, involving 23,527 cu.yd. excav., 27,194 lin.ft. curbstone, 44,519 sq.yd. paving, etc.; also following alleys with 1 course concrete, Alleys Nos. 1015, 1016, 107, 108, 109, 1020, 1021, 1022, 1023, and 1024, involving 4231 cu.yd. excav., 11,693 sq.yd. paving, etc. C. W. Hubbell, city engr.

Mich., Detroit—Dept. Pub. Wks. soon receives bids paving with asphaltic concrete on 6 in. concrete base, Amherst or Medina curb, Kirby Ave. from Van Dyke to Baldwin Aves., cost $9412; Gladstone Ave., from Wilson to 12th St., $11,966; Canfield Ave. from Crane to Rhons Aves., $6255, all 26 ft. wide; with 1 course concrete, east and west alley between Woodward 2nd, Calvert and Collingwood Aves., $3750, north and south alley between Hastings and Crystal Sts., Trombly and Milwaukee Aves., $4200, both 20 ft. wide; T. alley between Greenwood, 4th, Hancock and Warren Aves., $4710, 16-20 ft. wide; alley east of and parallel to Dexter Blvd. from Hogarth to Northwestern Aves., $1250; alley between Belvidere, McClellan, Warren and Moffatt Aves., $5655; H. alley between Lycaste, Hart, Jefferson and Kercheval Aves., $6020; alleys between Meadowbrook, Montclair, Marsh and Jefferson Aves, $8480; T alley between Lenox, Drexel, Freud and Jefferson Aves., $7025, all 18 ft. wide. C. W. Hubbell, city engr.

Mich., Highland Park (Detroit P. O.)—D. C. Gowing, city clk., soon receives bids paving Waverly Ave. from Hamilton Blvd. to Lincoln Ave., cost, $10,055; Moss Ave. from Hamilton Blvd. to Puritan Ave., $7724; both sheet asphalt on 6 in. concrete base.

Mich., Pontiac—Comrs. Oakland Co. plan to grade, drain and surface 10½ mi. Saginaw Turnpike from Potters Corners to Genessee Co. line, probably concrete. Federal Government and State will appropriate toward cost.

Mich., St. Clair—City voted $20,000 bonds to grade and pave Belle River Rd. from Mary St. to southerly city limits, concrete, 18 ft. wide.

Ill., Chicago—Cook Co. receives bids about July 1, improving 2274 ft. Sect. 59-15d, Crawford Ave. beginning at Chicago city limits, 18 ft. wide, involving 4807 sq.yd. concrete, 1100 cu.yd. earth excav., 68 cu.yd. concrete in culverts, bridges and walls. About $15,303. B. D. Barker, co. supt. highways.

Ill., Edwardsville—City appropriated $65,000 bonds to improve Victory Paving Dist. Total cost, $90,000.

Ill., Mason City—Bd. Local Impvts. soon lets contract for following improvements in Paving Dist. "A:" 1878 sq.yd. 54 ft. pavement, 7 and 9 in. thick, reinforced, $2.75 per sq.yd., total cost, $5164; 2496 sq.yd. 44 ft., 7 and 9 in. thick, reinforced, $2.75, $6864; 6702 sq.yd. 36 ft. 6 and 8 in. thick, reinforced, $2.55, $17,090; 60 cu.yd. concrete, $9 per cu.yd., $540; 23,510 lb. extra reinforcing for reinforcing Federal and state aid strip along center of street, $1176; 2305 cu.yd. excav., $0.50 per cu.yd., $1152; 8 catch basins, $400; 16 c.i. storm water inlets, $480; 550 lin.ft. salt-glazed inlet pipe, $1.10 per lin.ft., $605; 68 C-L Aprons, 30 x 60 in., $1020; court costs, costs of making assessment collection and engineering and attorney's fees and all other lawful expenses, $2069.

Wis., Ashland—City plans to pave 15 blocks of 3rd St., from 2nd Ave. E. to 14th Ave.

Wis., Janesville—Rock Co. soon lets contract building 6 mi. concrete highway between here and Town Line Bridge, north of Beloit.

Wis., Jefferson—Comrs. Jefferson Co. plan election to vote on $2,000,000 bonds to build permanent roads.

Wis., Kiel—City plans to grade and pave Main St., 20 ft. wide, involving 21,000 sq.yd. 2 course concrete and 9000 lin.ft. concrete curb and gutter. F. Muth, City Hall, engr.

Wis., Sheboygan—City plans to grade and pave 1.9 mi. Martin Ave. to Calumet Dr., 20 ft. wide, involving 3900 sq.yd. 2 course concrete and 2000 lin.ft. concrete curb and gutter, cost $20,000; 3 mi. North 11th, North 14th and portion North 6th Sts., 18 ft. wide, involving 5900 sq.yd. 2 course concrete and concrete curb and gutter, $40,000. C. U. Boley, city engr.

Wis., Whitefish Bay—Village voted $20,000 bonds to build roads.

Ia., Albia—Comrs. Monroe Co. rejected bids received June 4, grading 8.3 mi. Federal Aid Project No. 20, 24 ft. wide, involving 1250 lin.ft. drain tile and 116,444 cu.yd. excav., etc. About $49,900. Work will be readvertised. C. U. Bair, Albia, engr.

Minn., Buffalo—Comrs. Wright Co. rejected bids grading and graveling State Rd. No. 2, Job No. 5. Work will be readvertised. F. W. Van Krevelin, Buffalo, engr. Noted May 8.

Minn., Little Falls—Comrs. Morrison Co. soon lets contract building 11.9 mi. Federal Aid Project No. 24, State Rd. No. 3, involving 37,900 cu.yd. excav. and 13,000 cu. yd. surfacing, etc. About $60,000. A. J. Fenn, Little Falls, engr.

Minn., Mantorville—Comrs. Dodge Co. received no bids June 3, building 12 mi. Federal Aid Project No. 66, State Aid Job No. 1802, 24 ft. wide. About $6[illegible]00. Work will be readvertised. R. D. Jo[illegible]ens, Hayfield, engr. Noted May 29 under Hayfield.

Minn., Pipestone—Comrs. Pipestone Co. voted $250,000 bonds to build roads. T. A. Bailey, aud.

Neb., Madison—City soon lets contract paving 3400 ft., Madison, 2nd, 3rd and 8th Sts., Dist. No. 2, 24-50 ft. wide, involving 12,182 vertical fiber on 5 in. concrete base, 6204 lin.ft. concrete curb and 3714 cu.yd. earth excav. About $53,294. W. D. J. Steckelberg, city engr. Noted May 29.

N. D., Grand Forks—City plans to pave 3000 ft. University Ave. from Westcott St. to Columbia Rd., 20 ft. wide, concrete, cost, $34,000; 2700 ft. Skidmore Ave. from 3rd to 5th Sts., north along Great Northern Ry. tracks to city limits, 28 ft. wide, concrete, cost, $25,000; Federal Government will appropriate toward cost. C. S. Giles, city engr.

N. D., New Rockford—Comrs. Eddy Co. rejected bids received June 4, building 5.7 mi. Federal Aid Project No. 6, gravel. Noted May 15.

Mont., Hardin—City plans to improve 28 blocks concrete sidewalks. About $10,000. E. C. Flickenger, Hardin, engr.

Mont., Lewistown—City plans to pave streets in Paving Dists. No. 28 and 29, cost $16,000 and $64,000 respectively. R. P. Longshore, Lewistown, engr.

Mo., Bolivar—Johnson Twp., Polk Co. voted $25,000 bonds to build highway from Cedar Hickory to St. Clair. T. S. Leavell, co. engr.

Ark., Forrest City—St. Francis Co. Rd. Impvt. Dist. No. 4 receives bids about August building gravel roads, 14 ft. wide. About $160,000. L. C. Torrence, Forrest City, engr.

Ark., Osceola—Comrs. Mississippi Co. rejected bids received June 2 grading 20 mi. earth roads, 22 ft. wide, in Etowah Rd. Impvt. Dist. No. 2, 75 mi. in Luxora & Little River Rds. Impvt. Dist. No. 2, 22 ft. wide; 26 mi. road in Burdette Rd. Impvt. Dist No. 3, 22 ft. wide; received no bids grading 12½ mi. road, 22 ft. wide, in Osceola & Little River Rd. Impvt. Dist No. 1. Pride & Fairley, Osceola, engrs. Noted May 22.

Tex., Cameron—Milam Co. having plans prepared building road in Branchville Dist., between Temple-Taylor Rd. and Waco-Houston Rd. About $25,000.

Tex., Dime Box—City voted $50,000 bonds to build roads.

Tex., Granbury—Hood Co. plans to surface with crushed rock (waterbound macadam), clear, grub, grade and build concrete drainage structures on 6.6 mi. Highway No. 10 from Erath Co. line to Tolar, 24 ft. wide. About $67,805. A. E. Firmin, Granbury, engr.

Tex., Mt. Pleasant—Titus Co. plans to clear, grub, grade, gravel, surface, etc., 12.46 mi. El Paso-Texarkana Rd. from point 2 mi. east of Mt. Pleasant to Morris Co. line, 9 ft. wide. Plans include 2 bridges. About $56,040. Wilder & O'Neal, Chronicle Bldg., Houston, engrs. Noted Apr. 3.

Tex., Robert Lee—Coke Co. election June 28, to vote $60,000 bonds to build and improve roads.

Tex., Seguin—Comrs. Guadalupe Co. plan to grade and improve 15.7 mi. Highway No. 3, from Seguin to Gonzales Co. line, 16 ft. wide, involving 53,025 lin.ft. machine grading, rein.-con. concrete drainage structures and timber bridge. About $69,790. Hess & Skinner, South Western Life Bldg., Dallas, engrs.

Tex., Sherman—Grayson Co. plans to improve, drain, grade and surface with 6 in. gravel, 11.467 mi. state highway from Sherman through Denison to Colbert Bridge at Red River, 15 ft. wide. About $42,522. J. C. Field, 410½ West Main St., Denison, engr.

Tex., Sonora—Sutton Co. voted $300,000 bonds to build roads.

Wash., Ridgefield—Mayor authorized city council to pass ordinance for hardsurfacing Pioneer Ave., Main and Lake Sts. N. C. Hall, mayor.

Wash., Tacoma—Pierce Co. voted and sold $2,500,000 bonds to build 100 mi. road during year.

Wash., Vancouver—Comrs. Clarke Co. receive bids about July 15, building 6 mi. 4th Plain Rd. from city limits to Brush Prairie. B. L. Dorman, co. engr.

Streets and Roads (Continued)

Oregon—State Highway Comn., Salem, voted $2,500,000 bonds to build Roosevelt Highway along Pacific coast from Washington to California state lines. About $5,000,000. Federal government appropriated balance of cost. H. Nunn, state highway engr. Noted Mar. 6.

Ore., Albany—Linn Co. voted $600,000 bonds to improve county roads. Noted Apr. 17.

Ore., Astoria—City rejected bids paving Bond St. and Taylor Ave. Work will be readvertised. G. T. McClean, city engr. Noted Apr. 17.

Ore., Astoria—Council having plans prepared for improving 29th St., Floral Ave., 2nd St. from Spokane, Portland & Seattle R. R. to Astor and 37th Sts. G. T. McClean, city engr. Noted May 29.

Ore., Baker City—Baker Co. voted $500,000 bonds to improve county roads.

Ore., Beaverton—City soon lets contract paving, grading, curbing and draining Watson St. from Front to 1st Sts., Front St. from Watson to Hall Sts., B'way. from Watson St. to city limits, in Local Dist. No. 1, bitulithic or asphaltic concrete pavement, concrete curbing and vitr. or cement pipe. G. Thyng, city clk.

Ore., Bend—Deschutes Co. voted $125,000 bonds to improve county roads.

Ore., Condon—Gilliam Co. voted $250,000 bonds to build roads.

Ore., Corvallis—Benton Co. voted $220,000 bonds to hard-surface and grade county roads.

Ore., Dallas—Polk Co. voted $265,000 bonds to improve county roads.

Ore., Enterprise—Wallowa Co. voted $300,000 bonds to improve county roads.

Ore., Fossil—Wheeler Co. voted $44,000 bonds to build county roads.

Ore., Heppner—Morrow Co. voted $290,000 bonds to improve and build county roads.

Ore., Klamath Falls—Klamath Co. voted $347,704 bonds to improve roads.

Ore., Lakeview—Lake Co. voted $200,000 bonds to improve county roads.

Ore., McMinnville—Yamhill Co. voted $360,000 bonds to hard-surface and grade county roads. Noted May 15.

Ore., Marshfield—City Council plans to improve 6th St. from Central Ave. to south end of street, concrete or rock asphalt on concrete base, 26 ft. wide, 5 ft. parking, 6 ft. concrete sidewalk. Estimate cost, rock asphalt on concrete base, $26,235, concrete, $25,282. E. K. Burton, city engr.

Ore., Salem—Marion Co. voted $850,000 bonds to build and improve roads. U. G. Boyer, clk.

Ore., Tillamook—Tillamook Co. voted $430,000 bonds to improve county roads. Noted Apr. 17.

Ore., Toledo—Lincoln Co. voted $180,000 bonds to build roads.

Cal., Exeter—City plans to pave 13 blocks, probably concrete or oil macadam and for crushed rock drives and cement walks in city park.

Cal., King City—City voted $46,000 bonds to build 1½ mi. road.

Cal., Martinez—Contra Costa Co. election July 22 to vote on $2,600,000 bonds to build county roads.

Cal., Oakland—City having plans prepared, paving, building concrete gutters, cement curbs, sewers, etc., in 5 blocks of Oak St., 6 blocks Harrison St., 5 blocks Alice St., 7 blocks Castro St., 1 block Washington St., 12 blocks Grove St., 6 blocks Jefferson St., 5 blocks 11th St., 6 blocks 8th St., 6 blocks 10th St., 15 blocks 5th St., 6 blocks 8th St., 15 blocks 14th St., 15 blocks 12th St., 8 blocks 13th Ave., 3 blocks 9th St.; also building sewers in 16 blocks Madison and Jackson Sts. and 14 blocks Bush and West Sts. About $1,000,000. P. F. Brown, city engr.

Cal., Red Bluff—Tehama Co. election July 1 to vote on $86,000 bonds to build roads.

Cal., Redwood City—See "Sewers."

Cal., San Diego—City having plans prepared paving and improving Moore, Tide, Lytton, Rosecrans, Talbot, Santa Barbara, De Foe, Abbott, Voltaire and Tennyson Sts., Chatsworth, Catalina and West Point Loma Blvds., Point Loma and Newport Aves. and Canyon Rd., total length 12½ mi., 20 ft. wide. Cost $500,000, of which city will pay $115,000.

Cal., Visalia—Comrs. Tulare Co. plan to grade, gravel and oil 40 mi. roads between Ducor and Angiola, and 13 mi. between Worth and Springville. About $25,000. G. R. Prestidge, co. clk.

Que., Dorion—Municipal Council soon receives bids building concrete and waterbound macadam roads. Bonds for $665,000 sold for project.

Ont., Owen Sound—City soon receives bids building permanent roads, asphalt or concrete. About 2 mi. to be done this summer, cost $100,000; total cost, $300,000. D. H. Fleming, engr.

Ont., Pembroke—Town having plans prepared by W. A. Moore, engr., for macadam pavements. About $36,000.

Ont., Sandwich East (Sandwich P. O.)—Township plans to pave 2 sections on River Rd., concrete. About $45,614 and $23,400 respectively. McCall & Fletcher, Gas Bldg., Windsor, engrs.

Man., Springfield—H. C. Christopherson, secy. municipality, Oakbank, soon lets contract grading 10½ mi. roads.

Alta., Calgary—City Council appropriated $40,500 bonds to pave 4th Ave.

BIDS DESIRED

Massachusetts—Until June 24, by State Highway Comn., Boston, for 2000 ft. bituminous macadam road, 18 ft. wide, Avon Twp.; 5600 ft. bituminous concrete, 15 ft. wide, Falmouth Twp.; 3100 ft. concrete, 18-24 ft. wide, West Springfield Twp. A. W. Dean, Boston, state highway engr.

Mass., Boston—See "Miscellaneous."

Connecticut—Until June 20, by State Highway Comn., Capitol, Hartford, improving 51,691 ft. 3 in. bituminous macadam over 7 in. native stone base on Norwich Westerly Rd., Preston, Ledyard, North Stonington and Stonington Twps.; 9722 lin.ft. 7 in. native stone macadam on North Granby Rd., Lebanon Twp.; 3000 lin.ft. 7 in. native stone macadam on North Granby Rd., Granby Twp.; 6600 lin.ft. 3 in. bituminous macadam over 4 in. stone base, on Abington Rd., Pomfret Twp.; 4770 lin.ft. 7 in. native stone macadam on Newent Rd., Lisbon Twp.; 3800 lin.ft. 5 in. gravel and 3 in. trap rock top and one 18 ft. span rein.-con. slab bridge on Bozrah St., Bozrah Twp.; one 21 ft. span rein.-con. slab bridge with one 6 ft. sidewalk over Hop Brook on trunk line from Simsbury to Avon, Simsbury Twp. C. J. Bennett, state highway engr.

Conn., Hartford—Until June 24, by Bd. Contr. & Supply, Municipal Bldg., paving 6175 ft. Wethersfield Ave., involving 36,590 sq.yd. asphalt on 6 in. concrete base. R. N. Clark, city engr.

N. Y., Brooklyn—Until June 25, by E. Riegelmann, boro. pres., regulating and laying cement sidewalks on both sides of Bay Ridge Pl. from Bay Ridge to Ovington Aves.; on west side of Ocean Ave. from Ave. L to Ave. M; grading sidewalk space and laying cement sidewalks on south side of Elmwood Ave. from Gravesend Ave. to East 2nd St.; regulating and grading Bay 38th St. from 86th St. to Benson Ave.; regulating, recurbing and paving with permanent asphalt on 6 in. concrete base; roadway of 64th St. from 13th to 14th Aves.; regulating and paving with permanent asphalt on 6 in. concrete base, roadway of 76th St. from 17th to 18th Aves.

N. Y., Ilion—Until June 27, by Bd. Trustees, Union St., building 14,000 sq.yd. pavement including curbing, catch basins, tile, etc. S. M. Hubbard, clk.; advertised in this issue.

N. Y., Long Island City—Until June 23, by M. E. Connolly, pres. Queens Boro., regulating and repaving with improved granite block on 6 in. concrete base, between outer rails within the railroad franchise area, 13th St. from 2nd to 9th Aves., College Point, 3rd Ward; Jackson Ave. from Thomson Ave. to Bridge Plaza S. to 2nd Ave., 1st Ward; Jackson Ave. from 2nd Ave. to Old Newtown Rd., 1st Ward; with improved granite blocks and sheet asphalt on 6 in. concrete base, Main St. from Bway. to Jamaica Ave., Flushing, 3rd Ward.

N. Y., Long Island City—Until June 26, by M. E. Connolly, pres. Queens Boro., regulating, grading, curbing and laying sidewalks on 93rd Ave. from 102nd St. to Rockaway Beach Division of Long Island R.R., 4th Ward; Olmstead Pl. from Myrtle Ave. to Cypress Hills Cemetery, 2nd Ward; 16th Ave. from Grand Ave. to line about 285 ft. southwesterly thereof, 1st Ward; Hancock St. from Wyckoff Ave. to Evergreen Branch of Long Island R.R., 2nd Ward; also regulating and repaving with improved granite blocks on concrete foundation between curbs and rails and outside rails, Jackson Ave. from Bridge Plaza South to 2nd Ave., 1st Ward.

N. Y., New York—Until June 24, by H. Bruckner, pres. Bronx Boro., resetting curbs and repaving with sheet asphalt on concrete foundation, roadway of Cypress Ave. from East 135th to East 136th Sts.; repaving with granite blocks on concrete foundation, roadway of Cypress Ave. from East 132nd to East 138th Sts.

N. Y., New York—Until June 25, by F. L. Dowling, pres. Manhattan Boro., regulating and repaving with sheet asphalt on concrete base, roadway of Lexington Ave. from curb to rail, from 86th to 95th Sts., and from 97th to 98th Sts.; Lenox Ave., from 110th to 124th Sts.; 110th St. from 2nd to 5th Aves.; 119th St. from 1st to 3rd Aves.; 121st St. from 2nd to Lexington Aves.; with granite block on concrete base, West B'way. from Vesey to Franklin Sts., More St. from South to Water Sts.; also repairing asphalt pavements in railroad area in borough when and where directed by chief engineer.

N. Y., S. I., St. George—Until June 25, by C. D. Van Name, pres. Richmond Boro., repairing with wood block pavement roadways of Water St. from Bay to Wright Sts.; Richmond Terrace from Ferry St. to Staten Island Rapid Transit Ry.; Richmond Ave. from south side Richmond Terrace to ferry landing.

New Jersey—Until July 2, by State Highway Comn., Broad St. Bank Bldg., Trenton, building State Highway Route No. 1, Sect. 3, Robbinsville to Windsor, Mercer Co., involving 26,843 sq.yd. concrete surface. A. L. Grover, ch. clk.; advertised in this issue.

N. J., Jersey City—Until June 24, by city, repaving roadway on Newark Ave. from Warren to Brunswick Sts., also on Newark Ave. from Summit to Palisade Aves., sheet asphalt on present concrete foundation. About $50,000. C. A. Van Keuren, city engr.

N. J., Ridgefield Park—Until July 1, by Village Comrs., Municipal Bldg., 234 Main St., improving Hackensack Ave., Poplar and Park Sts. M. D. Starker, clk.; advertised in this issue.

N. J., Woodstown—Until July 7, by Village Council, repairing various streets, seal coat surface on repaired bituminous concrete foundation, involving 27,475 sq.yd. surface pavement. Keasbey & Sparks, Mecum Bldg., Salem, engrs.; advertised in this issue.

Pennsylvania—Until July 8, by State Highway Dept., Harrisburg, building roads in counties as follows:

Bradford Co., 45,051 lin.ft. rein.-con. or bituminous surface course and Hillside vitr. brick on concrete foundation.

Bucks Co., 14, 883 lin.ft. rein.-con. or bituminous surface course on concrete foundation.

Butler Co., 41,673 lin.ft. rein.-con. and Hillside vitr. brick.

Centre Co., 12,355 lin.ft. rein.-con. or bituminous surface course on concrete foundation.

Clearfield Co., 30,995 lin.ft. rein.-con. and Hillside vitr. brick.

Clinton Co., 2903 lin.ft. rein.-con. or bituminous surface course on concrete foundation.

Delaware Co., 24,900 lin.ft. bituminous surface course on concrete foundation and Hillside vitr. brick or rein.-con. and Hillside vitr. brick.

Fayette Co., 30,197 lin.ft. rein.-con. and Hillside vitr. brick.

Lehigh Co., 46,297 lin.ft. rein.-con. and Hillside vitr. brick.

Luzerne Co., 22,705 lin.ft. rein.-con. and Hillside vitr. brick.

Somerset Co., 80,363 lin.ft. rein.-con. and Hillside vitr. brick.

Sullivan Co., 17,412 lin.ft. rein.-con. or bituminous surface course and Hillside vitr. brick.

Susquehanna Co., 30,335 lin.ft. rein.-con.

Tioga Co., 28,831 lin.ft. rein.-con. or bituminous surface course on concrete foundation and Hillside vitr. brick.

Westmoreland Co., 32,047 lin.ft. rein.-con. and Hillside vitr. brick.

Streets and Roads (Continued)

Lackawanna and Wyoming Counties, 71,063 lin.ft. rein.-con. or bituminous surface course on concrete foundation.

York Co., 32,744 lin.ft. rein.-con. and Hillside vitr. brick. L. S. Sadler, state highway comr.; advertised in this issue.

Pa., Beaver—Until July 3, by Comrs. Beaver Co., building 8500 ft. road from Dougherty Twp. line, north to Eastvale Rd. Address E. L. Johnson and J. O. Brown.

Pa., Clairton—Until June 23, by H. M. Gates, boro. clk., grading, paving and sewering section of Miller Ave., involving 800 cu.yd. grading, 950 lin.ft. 8 x 12 in. storm sewer, 200 lin.ft. 8 in. vitr. pipe, elbows, etc., 350 lin.ft. 8 in. sanitary sewer, 200 lin.ft. 6 in. vitr. pipe, 3850 sq.yd. paving with concrete base, 1185 sq.yd. repaving concrete base, 2500 lin.ft. combined curb and gutter, lowering 325 lin.ft. combined storm and sanitary sewer, etc.; Van Kirk St., 300 cu.yd. grading, 3910 sq.yd. rein.-con. paving, 2500 lin.ft. combined curb and gutter, 2000 ft. 12 in. vitr. storm sewer, 110 lin.ft. 8 in. vitr. pipe, etc.; Thompson Ave., 200 cu.yd. grading, 800 sq.yd. rein.-con. paving and 500 lin.ft. curb and gutter.

Pa., Greensburg—Until July 2, by J. S. Sell, controller Westmoreland Co., building and improving 0.96 mi. Gossas-Hill Rd., Allegheny Twp. from Hyde Park Boro to Sproul Route No. 69, rein.-con. pavement on all grades up to and including 6%, and concrete base with integral curb, brick surface on all grades above 6%, also for waterbound macadam pavement on 7 in. Telfor foundation; 2.20 mi. Irwin-Hahnstown Rd., North Huntingdon Twp., concrete base with integral curb, brick surface on all grades above 6% with rein.-con. pavement on all grades up to and including 6%, or brick surface on entire road with concrete base with integral curb; 1.79 mi. Webster to Pittsburgh-Uniontown Pike Rd., Rostraver Twp., concrete base with 12 x 12 in. concrete curb and brick surface, also concrete base with 6 in. integral curb with brick surface on all grades above 6% and rein.-con. pavement on all grades up to and including 6%.

Pa., North East—Until June 28, by Twp. Rd. Supervs., building 8000 ft. rein.-con. pavement on road leading from here to Findley Lake. Hill & Hill, Marine Bank Bldg., Erie, engrs.; advertised in this issue.

Pa., Pittsburgh—Until July 3, by Controller Allegheny Co., improving 2¼ mi. Elizabeth Rd., in Forward Twp., 18 ft. wide, rein.-con. or asphaltic concrete surface; also 5286 ft. Thompson Run Rd. Extension in Ross and McCandless Twps., 16 ft. wide. R. V. Warren, Court House, engr.

Delaware—Until July 9, by State Highway Dept., Dover, building 0.42 mi. state highway involving 21,500 cu.yd. grading, 10 cu.yd. concrete masonry, 300 lb. reinforcement, 50 lin.ft., 15 in. and 34 lin.ft., 30 in. rein.-con. pipe, 6 bounds, 1500 tons stone for macadam and 600 sq.yd. penetration macadam, Contr. No. 15; 4.91 mi. state highway, 7.5 acres clearing and grubbing, 56,000 cu.yd. grading, 1020 cu. yd. concrete masonry, 32,000 lb. reinforcement, 706 lin.ft. 15-36 in. rein.-con. pipe, 50 bounds, 3000 lin.ft. piles, 3500 lin.ft. wood guard rail, 100 tons stone for macadam, 9380 cu.yd. cement concrete roadway, 250 joints and 2000 sq.yd. roadway reinforcement. Contr. No. 16; 2.94 mi. state highway involving 1 acre clearing and grubbing, 21,000 cu.yd. grading, 200 cu.yd. concrete masonry, 2000 lb. reinforcement, 410 lin.ft. 15-36 in. rein.-con. pipe, 30 bounds, 75 tons stone for macadam and 5600 cu.yd. cement concrete roadway and 150 joints, Contr. No. 17, New Castle and Kent Counties. C. M. Upham, ch. engr.; advertised in this issue.

Virginia—Until June 30, by State Highway Comn., Richmond, building 6.6 mi. road from Lynchburg to Forest, 16 ft. wide, 8 in. waterbound macadam, Project No. 37, Campbell and Bedford Counties; 4 mi. 2 in. penetration macadam and 1½ mi. waterbound macadam road, 6 in. deep, from Lynchburg to Judith's Creek, 16 ft. wide, Project No. 48A, Bedford Co.; 2 mi. road from Bocock to Rustburg, penetration macadam, 16 ft. wide, Project No. 50, Campbell Co. G. P. Coleman, state highway comr.

W. Va., Fairmont—Until June 28, by Comrs. Marion Co., building 1.5 mi. Brandonville-Fishing Creek Rd., 16 ft. wide, concrete. About $32,000. W. M. Linn, Fairmont, engr.

W. Va., Harrisonville—Until July 7, by Comrs. Ritchie Co., grading, draining and paving 5 mi. Northwestern Turnpike Rd., Federal Aid Project No. 29, in Clay Dist. beginning at or near Fair Grounds at Pennsboro and extending through Ellenboro, 16 ft. wide, concrete. Noted May 8.

W. Va., Lewisburg—Until July 1, by Comrs. Greenbrier Co. grading and draining proposed road leading from Ronceverte, west to Ft. Springs Dist. line, or so much thereof as funds available will permit. About $70,000 has been appropriated for project. F. K. Rader, co. engr.; advertised in this issue.

W. Va., Lewisburg—Until July 1, by Comrs. Greenbrier Co., building 2 mi. penetration macadam pavement, 16 ft. wide, beginning at end of present pavement, 3 mi. north of Lewisburg and extending along Marlins Bottom Turnpike. F. K. Rader, co. engr.; advertised in this issue.

W. Va., Martinsburg—Until June 23, by Comrs. Berkley Co. building 7 mi. bituminous road. J. W. Sperow, co. engr.

N. C., Kinston—Until July 8, by H. C. Hines, secy. Lenoir Co., paving Central Highway, involving 18,820 sq.yd. concrete, sheet asphalt or Warrenite pavement, 3282 cu.yd. excav., 4356 lbs. reinforcement steel, 242 cu.yd. concrete box culverts; advertised in this issue.

Fla., Leesburg—Until July 7, by City Council, paving, draining and curbing 50,000 sq.yd. Main St. About $175,000. J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, Ga., engrs.

Fla., Miami—Until June 26, by City Council building concrete curb and gutter and vitr. brick, sheet asphalt or asphaltic concrete pavement in streets known as Highway Improvements H131, H135, H137 and H138, involving 6750 sq.yd. vitr. brick, 10,800 sq.yd. sheet asphalt on concrete base and 1200 lin.ft. concrete curb and gutter. W. B. Moore, clk. C. W. Murray, City Hall, engr.

La., Krotz Springs—Until June 28, by Bd. Supervs. Rd. Dist. No. 1, 4th Police Jury Ward of St. Landry Parish, Krotz Springs, building Krotz Springs Highway. Work consists of 60,000 cu.yd. earth embankment, timber bridges and drainage ditches. J. Andre, chn. F. S. Robert, Opelousas, engr.

O., Cleveland—City receiving bids paving Nordica Ave. from West 73rd to 80th Sts., involving 1125 cu.yd. excav., 18,950 sq.ft. 5 in. brick paving and 700 ft. 12 in. sewer pipe; Eichorn Ave. from West 45th to 54th St., 2355 cu.yd. excav., 41,575 sq.ft. 4 in. brick paving on 6 in. concrete base and 3160 ft. 5 in. stone curbing; Henley Ave. from West 92nd to 99th Sts., 1255 cu.yd. excav. and 17,800 sq.ft. 5 in. brick paving; Trivole Court from East 57th St. to Ashland Ave., 125 cu.yd. excav. and 17,180 sq.ft. 5 in. brick paving. R. Hoffman, city engr.

O., Lancaster—See "Sewers."

O., Springfield—Until July 16, by O. E. Carr, city mgr., paving 4563 ft. Limestone St., Sect. 1 from Washington to Clark Sts., wood or granite block, Sect. 2 from Clark to Rice Sts., sheet asphalt, bitulithic or brick, 45 ft. wide, involving 11,400 sq.yd. paving and 9100 ft. concrete curbing. O. E. Carr, city engr.

Indiana—Bd. Co. Comrs. building roads in following counties:

June 28, Shelby Co., Shelbyville, building gravel road in Addison Twp., to be known as J. M. Moberly Rd., F. W. Fagel, co. aud.

June 30, Decatur Co., Greensburg, 8145 ft. macadam road, Sandcreek Twp., 13,335 ft. macadam road, Adams Twp., 13,425 ft. macadam road, Fugit Twp., 14,430 ft. concrete road, Washington Twp., J. C. Barbe, co. aud.

Marshall Co., Plymouth, gravel road North Twp. O. H. Weber, co. aud.

Mich., Port Huron—Until June 21, by D. D. Worcester, rd. mgr. St. Clair Co., grading, shaping, building drainage ditches, culverts and bridges on 7½ mi. Church Rd., Assessment Dist. No. 25, 16 ft. gravel, Ira Twp.; 3½ mi. Yale-Lynn Rd., Assessment Dist. No. 20, 16 ft. gravel, Lynn Twp., 4½ mi. Harris Rd., Assessment Dist. No. 5, 16 ft. gravel, in vicinity of Lake Shore Twp.

Mich., Port Huron—Until June 25, by D. D. Worcester, rd. mgr. St. Clair Co., building 4½ mi. North and South Starville Rd., Assessment Dist. No. 13, Class B gravel, Class C slag with gravel top or penetration type, 16 ft. wide, Cottrellville Twp.

Illinois—Until June 25, by Dept. Pub. Wks. & Bldgs., Div. of Highways, Springfield, improving roads in following counties: Sangamon Co., 26,205 ft. Sect. G, Springfield-East St. Louis Rd., 29,982 ft. Sect. H, both 16 and 18 ft. wide, 30,011 ft. Sect. C, 24,508 ft. Sect. P-15d; Macoupin Co., 34,940 ft. Sect. D, 9525 ft. Sect. L-15d, 33,040 ft. Sect. E, 29,109 ft. Sect. F; Marshall Co., 22,714 ft. Sect. A1, Henry Morris Rd., 12,598 ft. Sect. A2, all 16 ft. wide. Alternate bids will be received on Portland cement concrete, 3 in. and 4 in. monolithic brick, bituminous concrete with or without binder course (Spec. C1, C2, C3 or C4). C. Older, ch. highway engr.; advertised in this issue.

Wisconsin—Until June 24, by State Highway Comn., Madison, improving Barron-St Croix Falls Rd., Federal Aid Project No 22, Polk Co., involving 8.99 acres clearing and grubbing, 75,739 cu.yd earth and 7134 cu.yd. borrow excav., 332 cu.yd Class "A" concrete, 1600 sq.yd gravel surfacing, 642 lin.ft. 15 in. vitr. pipe and 6888 lin.ft. guard rail; Frederic-Webster Rd. Federal Aid Project No. 89, Polk and Burnett Counties, 4.63 acres clearing and grubbing, 71,343 cu.yd. earth and 190 cu.yd borrow excav., 306 cu.yd. Class "A" concrete and 8785 lin.ft. guard rail; Spooner-Cumberland Rd., Federal Aid Project No 98, Washburn Co., 3.44 acres clearing and grubbing, 5458 cu.yd. earth and 35 cu.yd. borrow excav., 43.36 cu.yd. Class "A" concrete and 605 lin.ft. guard rail.

Ia., Adair—Until June 26, by city, for 15,542 ft. curbing and 20,678 yd. paving, concrete, asphaltic concrete, brick, sheet asphalt, bituminated concrete or bituminous macadam. T. S. Delay, Creston, consult. engr. Noted May 27.

Ia., Creston—Until June 30, by C. Davenport, city clk., building 20,000 ft. curbing and 30,000 yd. paving, concrete, asphaltic concrete, sheet asphalt, brick block verticle fiber brick or creosoted wood block. P. K. DeVoe, city engr.

Ia., Elliott—Until June 27, by city, for 19,539 ft. curbing and 26,433 yd. paving, concrete, asphaltic concrete, brick, sheet asphalt, bituminated concrete or bituminous macadam. T. S. Delay, Creston, consult. engr. Noted Feb. 20.

Ia., Mystic—Until June 27, by city, for 8000 yd. brick, concrete, asphaltic concrete or bitulithic paving and 3300 ft. curbing. M. G. Hall, Centerville, engr.

Ia., Sidney—Until June 26, by city, for 38,000 sq.yd. pavement, vertical fibre brick, asphaltic concrete or concrete; also for 6700 ft. 10-24 in. storm sewers. Archer & Stevens, New England Bldg., Kansas City Mo., engrs.

Ia., Tabor—Until July 1, by city, for 5219 ft. curbing and 21,686 yd. paving, concrete, asphaltic concrete, brick, sheet asphalt, bituminated concrete or bituminous macadam. T. S. DeLay, Creston, consult. engr.

Ia., Villisco—Until June 24, by city, for 20,611 ft. curbing, and 32,330 yd. paving, concrete, asphaltic concrete, brick, sheet asphalt, bituminated concrete or bituminous macadam. T. S. Delay, Creston, consult. engr.

Minn., Albert Lea—Until July 7, by F. Tavis, aud. Freeborn Co., grading and graveling 11.5 mi. Federal Aid Project No. 61, State Rd. No. 6, 24 ft. wide. About $80,000. No bids received June 2. Noted May 22.

Minn., Albert Lea—Until June 27, by city, paving various streets, involving 29,669 sq.yd. pavement, 8439 cu.yd. excav., 2573 lin.ft. cement curb, 4662 lin.ft. pipe, 59 manholes, 39 catch basins and 10 lin.ft. 10 in. sewer. Bids will be received for creosoted wood block, rein.-con., asphaltic concrete, bitulithic or Tarvia pavement on concrete foundation.

Minn., Bemidji—Until July 2, by A. D. Johnson, aud. Beltrami Co., improving 16 mi. Federal Aid Project No. 57, 24 ft. wide. About $100,000. Work involves 104 acres clearing, 142,538 cu.yd. excav., also building Bridge No. 3112, having three 75 ft. spans. S. D. Snyder, Bemidji, engr.

Minn., Duluth—Until June 23, by J. A. Farrell, city comr., grading and paving with 1 course concrete 5920 ft. Cooke St. from 40th Ave. to Superior St., grading 42 ft. wide with 20 ft. concrete in center. About $59,624. Work involves 9069 ft. concrete curbing, 10,509 sq.yd. concrete and 8785 cu.yd. excav.

Minn., Duluth—Until June 23, by J. A. Farrell, city comr., grading 5795 ft. 59th Ave. W., from Main to Elinor Sts., 40 ft. wide, involving 13,690 sq.yd. concrete, 11,585 lin.ft. concrete curbing, 2000 sq.ft. concrete sidewalk, 7677 cu.yd. excav. and 3500 ft. 12-36 in. sewer pipe and 12,677 ft. 3 in. tile. Noted June 5.

Minn., Grand Rapids—Until June 24, by Comrs. Itasca Co., grading and graveling 3 mi. road, connecting Sand Lake and Trout Lake Rds., 24 ft. wide. About $18,000. O. J. Lidberb, Grand Rapids, engr.

Streets and Roads (Continued)

Minn., Pipestone—Until July 8, by T. A. Bailey, aud. Pipestone Co., improving Job No. 1905, State Rd. No. 4, involving 27,392 cu.yd. gravel, etc.; Job No. 1904, State Rd. No. 6, 33,951 cu.yd. grading, 13,082 cu.yd. excav., 76,500 cu.yd. overhaul, 12,166 cu.yd. gravel, etc. About $95,000. E. Keeler, Pipestone, engr.

Minn., Solana—Until June 28, by A. E. Arndt, Solana, grading and graveling 5.6 mi. road in Dick Twp., Range 22, 24 ft. wide. About $35,000.

Kan., Lawrence—Until June 30, by Douglas Co., building 8½ mi. Fort to Fort Rd., 18 ft. wide, concrete, and Mud Creek Bridge, consisting of two 80 ft. span girders and 20 ft. concrete roadway. About $450,000. L. Duffee, co. engr.

N. D., Bismarck—Until June 30, by city, laying 21,420 ft. sheet asphalt, bituminous concrete or concrete pavement, 24-30 ft. wide, in Impvt. Dist. No. 3. T. R. Atkinson, city engr.

Wyoming—Until June 23, by State Highway Comn., Cheyenne, building roads as follows:

Lincoln Co., 13.29 mi. Big Piney Rd., from Marbleton south, involving 37,000 cu. yd. excav. and embankment, 2200 cu.yd. gravel surfacing, 553 lin.ft. culverts, 2640 cu.yd. concrete; 15,300 lb. reinforcement and one 60 ft. steel span bridge; 17.65 mi. Cokeville-Star Valley Rd. from Cokeville north, 54,000 cu.yd. excav. and embankment, 26,000 cu.yd. shale surfacing, 2500 lin.ft. culverts, 427 cu.yd. concrete, 20,000 lb. reinforcement and structural steel, estimated cost, $117,084.

Crook Co., 19.25 mi. Sundance-Beulah Rd., 80,000 cu.yd. excav. and embankment, 28,500 cu.yd. gravel surfacing, 740 cu.yd. concrete, 2162 lin.ft. culverts, 51,000 lb. reinforcement, 2000 lb. structural steel and one 45 ft. steel span bridge, $169,500.

Platte Co., 12.60 mi. Yellowstone Highway north and south of Chugwater, 68,000 cu.yd. excav. and embankment, 21,200 cu.yd. surfacing, 316 cu.yd. concrete; 1144 lin.ft. culverts, 19,000 lb. reinforcement, one 60 ft. span concrete and I beam bridge. About $100,848.

Mont., Bozeman City—Until June 23, by City Council, paving 4300 sq.yd. Lindley Pl. and Olive St., 4400 sq.yd. College St., and 2600 sq.yd. Dickerson St., bitulithic. C. Widener, city engr. Noted June 5.

Mo., King City—Until June 24, by City Clk., paving 7 blocks Vermont, Connecticut and Ohio Sts., involving 12,770 sq.yd. concrete. About $40,000. Archer & Stevens, New England Bldg., Kansas City, Mo., engrs.

Ark., Rison—Until June 26, by Comrs. Rd. Impvt. Dist. No. 2, Cleveland Co., at office of State Highway Dept., Little Rock, building 10½ mi. road. Work involves 28 acres clearing and grubbing, 4 mi. fence moving, 35,000 cu.yd. earth excav., 1.5 mi. grading machine work, 216 cu.yd. Class A and 119 cu.yd. Class B concrete, 504 lin.ft. 18 in. and 622 lin.ft. 24 in. concrete or corrugated iron pipe, three 4 ft., one 60 ft. and one 80 ft. steel truss spans, and 260 lin.ft. wooden pile bridges. Moreland & Bennett, Pine Bluff, engrs.; advertised in this issue.

N. M., Albuquerque—Until July 2, by A. R. Hebenstreit, city mgr., paving and building storm sewers, in various streets, involving 105,000 sq.yd. pavement, 50,000 lin.ft. curb and gutter and 12,000 sq.yd. alley pavement, bithulithic, asphaltic concrete and reinforced cement concrete; also laying 12,400 ft. 8-36 in. clay vitr. pipe sewer, including necessary manholes and catch basins; advertised in this issue.

Washington—Until June 23, by State Highway Bd., Olympia, paving 3.9 mi. Sunset Highway east of Spokane, Permanent Highway No. 4-D, Post Rd. Project No. 23, concrete, Spokane Co.; 8 mi. Pacific Highway east of Everett, concrete, Snohomish Co.; surfacing 5.2 mi. Pacific Highway from Woodland to Martins Bluff, gravel, Cowlitz Co.; clearing, grading, draining and surfacing 7 mi. Pacific Highway south, concrete, Thurston Co.; 7.8 mi. Chelan-Okanogan Highway from Tonasket to Oroville, State Rd. No. 10, Post Rd. Project No. 15, gravel, Okanogan Co.; 7.8 mi. Chelan-Okanogan Highway from Brewster to Malott, State Rd. No. 10, Post Rd. Project No. 14, gravel, Okanogan Co; 4.9 mi. Sunset Highway east of Hartline, Grant Co. J. Allen, state highway engr.

Wash., Vancouver—Until June 28, by Comrs. Clark Co., paving 4 mi. Pioneer-Ridgefield Rd., crushed rock. About $96,000. B. L. Dormann, co. engr.

Wash., Washougal—Until June 23, by H. C. Carpenter, town clk., improving 3rd St. from Main to Webber Sts., by grading 20 ft. wide in center, paving 12 ft. center with crushed rock macadam 8 in. deep and sloping to 5 in. at edges.

California—Until June 30 (change of date), by State Highway Comn., 515 Forum Bldg., Sacramento, building 2.8 mi. road between Freshwater Lagoon and Orick, Humboldt Co., involving 38,610 cu.yd. excav., 65 cu.yd. class "A" Portland cement concrete, etc.; 7.9 mi. between Last Chance Slide and Cushion Creek, Del Norte Co., 236,400 cu.yd. excav., 380 cu.yd. class "A" Portland cement concrete, etc. A. G. Fletcher, state highway engr. Noted June 5.

Cal., Riverside—Until July 7, by Bd. Supervs. Riverside Co., paving 1700 ft. Ontario Ave., Route 15, involving 587 cu. yd. excav., 1700 lin.ft. shaping, 419 cu.yd. Class "A" concrete paving. Alternate bids will be taken for 27,200 sq.ft. 5 in. oiled macadam paving. A. F. Fulmor, Riverside, engr.

Cal., Santa Ana—Until July 2, by Bd. Supervs. Orange Co., paving 3.62 mi. Santa Ana Canyon Rd., involving 1500 cu.yd. excav., 650 lin.ft. cement curbs, 3480 cu.yd. concrete pavement, 56,000 lbs. triangular mesh reinforcement. County will furnish cement, reinforcement and crushed rock. J. M. Backs, clk. Noted June 12.

Ont., Sarnia—Until June 23, by J. A. Baird, city engr., resurfacing with sheet asphalt 40,000 sq.yd. asphalt block pavement on Christina, George, Victoria, Davis, Cromwell, Lochiel Sts. About $55,000. Noted May 29.

Ont., Toronto—Until June 24, by T. L. Church, chn. bd. control, paving Davenport Rd. from Avenue Rd. to Bedford Rd., Hastings Ave. from Doel Ave. to South Sawden Ave., Indian Grove from Bloor St. to point 700 ft. north, Indian Grove from Bloor St. to Glenlake Ave., Orchard Park Blvd. from Orchard Park Rd. to east end and Seaforth Ave. from O'Hara Ave. to point 134 ft. east, all asphalt; Orchard Park Rd. from Queen St. to Orchard Park Blvd. and Prescott Ave. from St. Clair to Rockwell Ave., bitulithic; Indian Grove, 700 ft. north of Bloor St. to 350 ft. north, brick block; building concrete sidewalks on Dorval Rd. from Bloor St. to Edna Ave., Edna Ave. from Indian Rd. to Indian Grove, Fernwood Park Ave. from Fir Ave. to point 333 ft. south, Glenmore Rd. from Wrenson Rd. to Gerrard St., Kennedy Ave. from Bloor to S. S. Colbeck St., Miller St. from Lindner St. to point 109 ft. north, Seaforth Ave. from O'Hara Ave. to point 134 east, Walpole St. from Morley Ave. to Hiawatha Rd.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Me., South Portland** (Portland P. O.)—See "Industrial Works."

Massachusets—State Highway Comn., Boston, received bids June 10, building 11,200 ft. state highway, 18 ft. wide, in Taunton Twp., from J. Reilly, Taunton, $67,575; Eastern Constr. Co., Brockton, $77,403; Coleman Bros., Chelsea, $77,533. Work involves 4100 sq.yd. concrete and 15,300 cu.yd. earth excav. Noted June 5.

★**Massachusetts**—State Highway Comn., Boston, let contract building state highway, 18-24 ft. wide, in Lincoln Twp., to J. Gaffney, Medford, $23,330. Work involves 17,000 gal. bituminous macadam, 1000 cu.yd. earth and 250 cu.yd. rock excav., 3190 cu.yd. borrow.

★**Mass., Boston**—Bd. Pub. Wks. let contract building sidewalks on Blue Hill Ave., Moraine, Beach and Gray Sts. to J. Singeralla, et al., 88 Broad St., $12,072. Work involves 12,000 sq.yd. granolithic.

N. Y., Binghamton—Bd. Contr. & Supply received bids paving Prospect Ave. (a) concrete, (b) Binghamton brick, (c) Olean brick, (d) Mack brick, (e) Oneonta brick, (f) Corning brick, from Seaman & De Angelo, Savings Bank Bldg., (a) $2.60 per sq.yd., (b) $3.30; M. Barber, (a) $2.90, (b) $3.68, (e) $3.85, (f) $3.73; E. V. Chappelle, 27 Wall St., (a) $2.92, (b) $3.24, (c) $3.71, (d) $3.71; G. Serafine, (a) $2.64, (b) $3.55, (e) $3.81, (f) $3.63. Noted May 29.

N. Y., Brooklyn—E. Riegelmann, boro. pres., received bids June 11, regulating, grading, curbing and laying sidewalks on (a) East 38th St., (b) 51st St., regulating and repaving with permanent asphalt on 6 in. concrete foundation strip 18 ft. wide in center of roadway of (c) 47th St., (d) 51st St., from J. Massio, (a) $4315; Cassell Bros., (a) $4378; Grimm Constr. Co., 460 Herold Ave., Richmond Hill, (a) $4548, (b) $4435; Uvalde Asphalt Paving Co., 1 Bway., New York City, (c) $42,426, (d) $10,681; Cranford Co., 52 9th St., (c) $43,928, (d) $10,848; Brooklyn Alcatraz Asphalt Co., 407 Hamburg Ave., (c) $45,015, (d) $11,022. Noted June 5.

N. Y., Gilboa—Bd. Water Supply, Municipal Bldg., New York City, received lowest 3 bids June 10, clearing, grading, draining, building culverts and guard rails on 7.75 mi. road around Schoharie reservoir, in Gilboa and Conesville Twps., Schoharie Co., Prattsville Twp., Greene Co. and Roxbury Twp., Delaware Co., Contr. 202, from Schunnemunk Constr. Co., Highland Mills, $176,700; Beaver Eng. & Contg. Co., 51 Chambers St., New York City, $188,751; S. Beskin, Beacon, $196,665. Noted May 22.

N. Y., New York—F. L. Dowling, pres. Manhattan Boro., received bids June 11, regulating and repaving with granite block on concrete foundation, roadway of (a) James Slip, (b) Leroy St.; with sheet asphalt on concrete foundation, (c) Wall St., (d) Lexington Ave., (e) 79th St., (f) Bway., from W. J. Fitzgerald, 547 West 45th St., (a) $18,977, (b) $25,300; C. Hellbroock Co., (a) $19,104, (b) $27,621; P. J. Kern, (a) $19,225, (b) $25,400; M. J. Sachs, (a) $20,171, (b) $26,256; Sicilian Asphalt Paving Co., 41 Park Row, (c) $21,564, (d) $3417; Uvalde Asphalt Paving Co., 1 Bway., (c) $23,590, (d) $3596, (e) $46,281, (f) $48,282; Asphalt Constr. Co., 2197 Madison Ave., (a) $20,282, (d) $3628, (e) $45,494, (f) $47,669; J. L. Brusstar, Harlem River and 150th St., (c) $24,618, (d) $3742, (e) $43,922; Cleveland Trinidad Paving Co., Flushing, (e) $45,621, (f) $47,986. Noted June 5.

★**N. J., Perth Amboy**—City let contract paving portion of Smith St., asphalt, to Utility Constr. Co., New Brunswick, $62,300.

★**Pa., Bellevue** (Pittsburgh P. O.)—Boro let contract grading, paving and curbing West St., to M. O'Herron, South 1st and McKean Sts., Pittsburgh, $4200; Florence St., to R. B. Baldwin, Coraopolis, $7200. Noted May 29.

★**Pa., Ebensburg**—Supervs. Conemaugh Twp., Cambria Co., let contract building 8600 ft. brick road on 5 in. concrete base leading from Franklin Boro. line to Frankstown Rd., in Conemaugh Twp., 18 ft. wide, to Thermic Coal & Supply Co., Hollidaysburg, $55,595; also for 650,000 No. 1 repressed vitr. bricks, to Custer & Custer, Johnstown, $19,916, who sub-let same to Clearfield Brick Mfg. Co., Clearfield. Noted May 22.

★**Pa., Ebensburg**—Supervs. East Carroll Twp., Cambria Co., let contract building 3.1 mi. Barnesboro-Hastings Rd., 18 ft. wide, to Bell-Bockel Co., Central Trust Bldg., Altoona, $169,252. Noted May 22.

★**Pa., Greensburg**—Comrs. Westmoreland Co. let contract rebuilding 3 mi. Harrison-City Trafford Rd., to McCrady Bros., 300 6th Ave., Braddock, $69,221.

★**Pa., Mont Alto**—State Dept. Health, Harrisburg, let contract building and repairing roads at Pennsylvania State Sanitorium for Tuberculosis, near here, to Bester-Long Co., Hagerstown, Md. About $79,950. Work involves 27,000 sq.yd. waterbound macadam on surface course, 5500 sq.yd. Telford macadam base, 2000 cu.yd. grading, 200 cu.yd. excav. and refill, 4000 sq.yd. rubble gutter, 18,000 sq.yd. scarifying or napping existing base course, 600 lin.ft. corrugated metal pipe culverts, 2000 lbs. reinforcing steel, etc. Noted May 15 under "Buildings, Harrisburg."

★**Pa., Pittsburgh**—Allegheny Co. let contract placing block floors on various bridges, to Farris Eng. Co., Empire Bldg. About $12,250.

★**Pa., Pittsburgh**—Allegheny Co. let contracts building 5280 ft. brick and concrete roadway on West Run Rd. from 8th Ave., Homestead Boro, to 1 mi. southwardly, 16 ft. wide, to R. Swan, Jenkins Arcade, $45,251; also for 6000 ft. waterbound macadam on Tarentum-Culmerville Ridge Rd., Frazer Twp., 16 ft. wide, to T. Cronin Co., 17th and Muriel Sts., $51,645. Noted June 12.

Streets and Roads (Continued)

★**Pa., Pittsburgh**—Allegheny Co. let contract placing wood block sidewalks and roadway on bridge over Allegheny River at entrance to Highland Park, to Farris Eng. Co., Empire Bldg., $30,100. Noted Apr. 24 under "Bridges."

Pa., Scranton—City received bids for (1) city maintenance work, replacing wearing surface, binder and concrete foundation, (2) replacing wearing surface, binder and concrete foundation, not exceeding 4½ in. thickness, (3 and 4) restoring pavements over trenches and same as 1 and 2, from H. B. Sproul Constr. Co., 105 South Division St., Peekskill, N. Y., (1) $4 per sq.yd., (2) $2.50 per sq.yd., (3) $4 per sq.yd., (4) $2.50 per sq.yd.; Gaynor Contg. Co., Bd. Trade Bldg., (1) $3.82 per sq.yd., (2) $2.44 per sq.yd., (3) $3.82 per sq.yd., (4) $2.44 per sq.yd.; Sweeney Bros., Miller Bldg., (1) $4.35 per sq.yd., (2) $1.39 per sq.yd., (3) $4.35 per sq.yd., (4) $2.50 per sq.yd.; M. Stipp & Sons, 435 Moir Court, (1) $3.21 per sq.yd., (2) $1.71 per sq.yd., (3) $6 per sq.yd., (4) $2.50 per sq.yd.; R. C. Ruthven, Carter Bldg., (1) $3.75 per sq.yd., (2) $1.74 per sq.yd., (3) $3.75 per sq.yd., (4) $2 per sq.yd.

★**Virginia**—State Highway Comn., Richmond, let contract building 5¾ mi. top soil road from Fredericksburg to Comorn, King George Co., to Ross Bros., Burkeville, cost $26,000; 8 mi. slag road from Wilson's Creek to Long Dale Furnace, Allegheny Co., to Carpenter Major Bros., Clifton Forge, $80,860. Noted May 15.

★**W. Va., Grafton**—Comrs. Taylor Co. will build 2 mi. Fetterman-Pruntytown Rd., 16 ft. wide, brick on concrete base. About $50,000. Work will be done by day labor. Noted May 8.

★**W. Va., Wayne**—Comrs. Wayne Co. let contract building 2 mi. Wayne Village Rd., grading 26 ft. wide, surfacing 16 ft. wide, involving 15,000 cu.yd. excav. and 17,051 sq.yd. brick pavement on concrete base, to Wayne Constr. Co., Wayne, $86,776.

★**North Carolina**—State Highway Comn., Raleigh, Beaufort Co., let contract paving 3¼ mi. road between here and Chocowinity, 18 ft. wide, to Simmons-Whitten Co., Charlotte, $88,665.

★**N. C., Albemarle**—Comrs. Stanly Co. let contract grading and top soiling 11 mi. road to Gibson Constr. Co., Knoxville, Tenn. About $71,000. Noted May 8.

★**N. C., Statesville**—City let contract paving 300,000 sq.yd. main streets, involving 48,000 sq.yd. asphalt and 48,000 sq.yd. bituminous concrete on 4 and 5 in. concrete base, to Thompson, Caldwell & Co., Charlotte. About $299,000.

★**Ga., Griffin**—City let contract grading, paving and curbing with granite and concrete, and building storm drains in 46,000 yd. main streets, to Pittman Constr. Co., Rhodes Bldg., Atlanta. About $180,000. Work involves 16,000 sq.yd. vitr. brick, 30,000 sq.yd. concrete, 36,000 lin.ft. granite curbing, 10,000 cu.yd. earth excav. Noted May 8.

★**Ga., Griffin**—Comrs. Spalding Co. let contract building 6.1 mi. concrete road on Overland Highway, 18 ft. wide, to McDougald Constr. Co., Atlanta, $160,299. Work involves 63,110 sq.yd. 6½ in. concrete. Noted May 29.

★**Fla., West Palm Beach**—Palm Beach Co. let contract building 20 mi. road along bank of Lake Worth-Lake Okeechobee canal, to Bryan & Snyder, Ft. Lauderdale. About $145,000.

★**Miss., Greenwood**—City let contract draining, paving, curbing and guttering streets with asphalt macadam to Hornaday Constr. Co., Memphis, Tenn. About $51,000.

★**Miss., Indianola**—Sunflower Co. let contract building 25 mi. gravel roads, to Healey Constr. Co., Meridian. About $75,000.

★**Ky., Frankfort**—Comrs. Franklin Co. let contract to R. B. Tyler Co., 114 South 4th Ave., Louisville, repaving and carpeting 10 mi. Owenton Pike, 16 ft. wide, with 40% asphalt road oil, cost $10,000; Louisville Turnpike from Shelby Co. line to Woodford Co. line; $15,000.

★**Ohio**—State Highway Comn., Columbus, let contracts grading, building bridges and culverts and paving 3.38 mi. Mansfield-Ashland Rd., Sec. P, bituminous macadam, and 1.92 mi. Belleville-Lexington Rd., Sect. B, bituminous macadam, Richland Co., to Galion Constr. Co., Galion, cost $113,979 and $47,496 respectively; 4.83 mi. Sect. A and 3.21 mi. Sect. B, Lincoln Highway, brick, Holmes Co., to Holmes Constr. Co., Millersburg, $234,628 and $155,768. Noted May 15.

Ohio—State Highway Comn., Columbus, received bids June 13, building roads in following counties:

Delaware Co., Sect. "a-2," Delaware-Marysville Rd., 2.85 mi. grading, constructing bridges and culverts and paving with waterbound macadam, from S. C. Kissner & Sons, Delaware, $53,210; Winchell, Royce & McDaniels, Columbus, $53,480; A. W. Burns, 55 East State St., Columbus, $55,048; bituminous macadam, Winchell, Royce & McDaniels, $56,810; A. W. Burns, $57,202; S. C. Kissner & Sons, $57,528.

Sect. "B," Delaware-Marysville Rd., 5.02 mi., grading, constructing bridges and culverts and paving with waterbound macadam, Winchell, Royce & McDaniels, $96,858; A. W. Burns, $99,017; Neff & Rader, Circleville, $100,152; bituminous macadam, Winchell, Royce & McDaniels, $100,620; A. B. Shaw, Delaware, $100,887; A. W. Burns, $100,971.

Fairfield Co., Sect. "C," Columbus-Lancaster Rd., widening roadway and rebuilding bridge, Wooten & McCready, New Lexington, $4845; Brown & Crook, Lancaster, $4906; J. A. Swingle, Zanesville, $4921.

Huron Co., Sect. "O," Oberlin-Norwalk Rd., 1.28 mi. grading, and paving with monolithic brick; **A. J. Balter, Norwalk, $48,672.**

Montgomery Co., Sect. "D," Dayton-Chillicothe Rd., 2.63 mi., grading berms and ditches, constructing drainage structures, reshaping present road and paving with bituminous macadam, Walter Huber, Tippecanoe City, $55,127; Billiter & Connell, Dayton, $56,340; W. A. Wroe, 605 Union Bank Bldg., Dayton, $57,039; plain concrete, Williams & Little, Cleveland, $57,665; W. A. Wroe, $59,246; Walter Huber, $61,067.

Ottawa Co., Sects. "J" and "K-3," Toledo-Elmore Rd., 7.15 mi., grading, constructing bridges and culverts and paving with concrete, Williams & Little, $223,428. Witte Constr. Co., Elmore, $224,778; P. A. McIntyre, New Lexington, $227,458.

Sect. "F," Oak Harbor-Genoa Rd., 1.99 mi., grading and paving with concrete, Barnes & Tobbirt, Rocky Bridge, $54,236; Marsman & Green, Grand Rapids, Mich., $54,920; Muldoon & Bergman, Tippecanoe City, $58,085.

Sandusky Co., Sect. "J," Fremont-Bellevue Rd., 5.76 mi., grading, constructing drainage structures and paving with brick, Modern Constr. Co., Fremont, $333,000; bituminous concrete, Modern Constr. Co., $294,101; bituminous concrete, different type, Modern Constr. Co., $279,000.

Union Co., Sect. "B-1," Marysville-Kenton Rd., 2.88 mi., grading, constructing bridges and culverts and paving with waterbound macadam, C. O. Hurd, Marysville, $41,109; Neff & Rader, Circleville, $41,192; J. C. McCann, 262 Midland Ave., Columbus, and W. M. Gray, Bowling Green, $44,171.

Geauga Co., Sect. "A2," Cleveland-Kent Rd., 94 mi. resurfacing with 3 in. bituminous macadam, J. C. Devine, Alliance, $10,599; Henderson Bros., Chagrin Falls, $10,729.

Lorain Co., Sects. "C-2" and "H," Ashland-Oberlin Rd., 3.29 mi., grading roadway, widening pavement and resurfacing with bituminous macadam, Hart & Kemp, Elyria, $39,095; Elyria Constr. Co., Elyria, $39,634; Highway Constr. Co., Elyria, $41,798.

Ottawa Co., Sect. "D2," Oak-Harbor-Genoa Rd., 3.56 mi., grading and resurfacing with bituminous macadam, Wise Bros. & Berman, Elmore, $32,802; Muldoon & Bergman, Genoa, $33,094; Marsman & Green, Grand Rapids, Mich., $33,510. Noted June 12.

★**O., Cleveland**—City let contracts to Cleveland Trinidad Co., The Arcade, paving Carnegie Ave., from East 89th to 100th Sts., cost $91,410, Roanoke Ave. from West 30th St. to Broadview Rd., $19,674; Gould & Maybach, 823 East 150th St., McElhatten Ave from East 136th to 140th Sts., $17,979; Roshl Bros., West 25th St. and Clark Ave., Trent Ave. from Fulton Rd. to West 41st St., $22,910, Hodgeson Ave. from Fulton Rd. to West 44th St., $11,271, West 35th St., from Mapleside Ave. to Trowbridge Ave., $37,156; Rieley Bros., 357 The Arcade, East 49th St. from Czar Ave. to Barkwill Ave., $10,020, Independence Rd. from Fleet Ave. to city limits, $16,390, Marsh Ave. from East 93rd to 102nd Sts., $26,576; A. M. Pejsa, 2359 East 93rd St., East 121st St. from Kinsman Rd. to Luke Ave., $27,678; Freshwater Paving Co., 11,712 Detroit Ave., West 58th St. from Bridge to Detroit Aves., $29,213, West 95th St. from Almira to Maywood Aves., $21,453; Baldwin Bros., 4500 Euclid Ave., East 125th St. from Phillips to Castlewood Aves., $11,361, East 119th St. from Kinsman Rd. to Union Ave., $20,783, East 117th St. from Kinsman Rd. to east end, $20,962, Hamlin Ave. from East Blvd. to East 121st St., $20,856, East 125th St. from Kinsman Rd. to Union Ave., $16,372; O. J. Beach, 751 East 117th St., Bessemer Ave. from East 65th to 75th Sts., $64,696. Noted May 8 and 22.

O., Cleveland—City received bids paving (a) North Moreland Blvd. from Shaker Blvd. to Woodland Ave., (b) Livingston Rd. from East 132nd St. to Abell Ave., (c) Ashland Ave. from East 132nd St. to city limits, (d) East 132nd St. from Shaker Blvd. to Griffing Ave., (e) Ripley Ave. from Hampton Rd. to Ashwood Ave., (f) South Moreland Blvd. from Shaker Blvd. to Buckeye Rd., (g) Hampton Rd. from 132nd St. to Albion Rd., (h) Albion Ave. from Hampton Ave. to city limits, (i) East 137th St. from Livingston Rd. to Abell Ave., (j) South Moreland Blvd. from Shakerheights Blvd. to Drexmore Ave., (k) Southington Rd. from Livingston Rd. to city limits, (l) Ludlow Ave. from East 132nd St. to city limits, (m) Keswick Rd. from Hampton Ave. to city limits, (n) Drexmore Rd. from South Moreland Blvd. to city limits, (o) Corby Ave. from Hampton to Ludlow Rds., (p) Chadbourne Rd. from Drexmore Rd. to city limits, (q) Bechet Rd. from Hampton Rd. to city limits, from Cleveland Trinidad Co., The Arcade, (a) $11,887, (b) $32,036, (c) $31,355, (d) $63,049, (e) $12,359, (f) $34,786, (g) $32,851, (h) $15,153, (i) $13,262, (j) $34,786, (k) $11,669, (l) $27,148, (m) $10,081, (n) $14,134, (o) $10,076, (p) $11,556, (q) $26,447; Gould & Maybach, 823 East 150th St., (a) $14,231, (b) $36,465, (c) $35,327, (d) $71,119, (e) $13,996, (f) $39,678, (g) $54,162, (h) $17,054, (i) $15,090, (j) $39,678, (k) $13,213, (l) $30,640, (m) $11,385, (n) $16,043, (p) $13,220, (q) $30,077; Rieley Bros., 357 The Arcade, (a) $14,987, (b) $34,900, (c) $34,058, (d) $68,429, (e) $13,515, (f) $38,141, (g) $52,384, (h) $17,430, (i) $14,458, (j) $38,141, (k) $12,781, (l) $29,528, (m) $10,952, (n) $15,513, (o) $11,095, (p) $12,726, (q) $29,089. Noted June 5.

★**O., Toledo**—City let contract paving Vermaas Ave. from Phillips to Cornelia Aves., to J. H. Horan, 420 Valentine Bldg., cost $24,500; Kingston St. from Navarre Ave. to Earl St., to Russel & Jennison, 2463 Bway., $16,149; Berkley Dr. from Sylvania to Berdan Aves., to Peters Bros., 237 Marion St., $14,264; Burnham Ave. from Sylvania to Maple Aves., to McKinney Bros., 371 Spitzer Bldg., $19,600; all reincon. Noted June 5.

★**Ind., Indianapolis**—Comrs. Marion Co. let contracts to Bergen & Jefferys, Indianapolis, grading and paving 3 mi. county highway, 18 ft. wide, involving 31,680 sq.yd. vitr. brick, cost $106,000; and 21st St. from Belt R.R. to Dearborn St., 18 ft. wide, vitr. brick, $23,538.

★**Mich., Detroit**—City let contract, to Otis Cement Constr. Co., 806 Hammond Bldg., paving Alley No. 1003, cost $7007, No. 1004, $8434, No. 1007, $5458, No. 1014, $892; H. Richmond, Penobscot Bldg., No. 1005, $5933; R. J. Powelson & Co., 1577 Iriquois Ave., No. 1006, $5651, No. 1008, $5642, No. 1009, $4836, No. 1012, $4847; Lennane & McIlvenna, 809 Union Trust Bldg., No. 1010, $1570, No. 1013, $1376; T. E. Currie, 20 McGraw Bldg., No. 1011, $1417. Noted June 5.

★**Mich., Detroit**—City let contract to Otis Cement Constr. Co. 806 Hammond Bldg., paving Alley No. 1003, cost $7007, No. 1004, 991, cost, $4785, No. 992, $4482, No. 998, $3545, No. 997, $3412, No. 998, $4044, No. 999, $4692; Lennane & McIlvenna, 809 Union Trust Bldg., No. 993, $1756, No. 995, $1752; Talbot Co., Penobscot Bldg., No. 994, $2541, No. 1000, $2958, No. 1002, $2609; R. J. Powelson Co., 1577 Iroquois Ave., No. 1001, $2974. Noted May 15.

★**Mich., Detroit**—City let contract, to Cleveland Trinidad Paving Co., 2940 Woodward Ave., paving 12th St., cost, $121,970, Sunset Pl., $9596; Detroit Asphalt Paving Co., 20 McGraw Bldg., Weher Ave., $8974, Sargent St., $8017, Pittsburg Ave., $16,220, Lakewood Blvd., $12,120, Fremont Pl., $13,720, Casgrain Ave., $27,259, Tireman Ave., $25,053, Harper Ave., $28,503; W. B. Brady Constr. Co., 1972 Grand River Ave., Collingwood Ave., $17,053. Noted May 29.

Mich., Detroit—W. T. Dust, comr. parks and blvds., received bids grading and paving 1100 ft. driveways in Roosevelt Park

Streets and Roads (Continued)

and entrance to Michigan Central Ry. Sta., 40-50 ft. wide, from J. Porath, 34 McGraw Bldg., $49,063; R. Porath, 1131 McKinley Ave., $51,711; laying 9103 sq.yd. asphalt surface only, Cleveland Trinidad Paving Co., 2940 Woodward Ave., $15,020; 9103 sq.yd. wearing surface, Dept. Pub. Wks., City Hall, $13,155. Noted June 12.

★**Mich., Grosse Pointe**—R. H. Erley, village engr., let contract paving Maryland Ave. from Jefferson to Kercheval Aves., Hampton Ave. from Maryland Ave. to westerly village limits and Wayburn Ave. from Fox Creek bridge to Hampton Ave., to Lennane Bros., 809 Union Trust Bldg., Detroit, $36,000. Noted May 15.

★**Mich., Highland Park (Detroit P. O.)**—City received no bids paving 600 ft. Grand Ave., from Hamilton Blvd. to Lincoln Ave., 30 ft. wide; 2800 ft. Oakland Ave., from alley north of Farrand Ave. to Manchester Ave., 46 ft. wide; 1600 ft. Davison Ave., from Oakland Ave. to easterly city limits, 46 ft. wide; 500 ft. George Ave. from Pilgrim to Puritan Aves., 30 ft. wide, all sheet asphalt on concrete foundation. Work will be done by day labor.

★**Mich., Pontiac**—City let contract paving Park St., to J. H. Baker & Son, Port Huron, cost, $16,017; Sanderson Ave., to Bartling & Haomes, Pontiac, $14,357.

★**Ill., Belvidere**—Lake Co. let contract paving 53,760 sq.yd. Belvidere Rd., Sect. G-15d (without cement), to Standard Paving Co., 326 West Madison St., Chicago, $39,610.

Ill., Chicago—Bd. Local Impvts. received bids June 4, paving (a) alley between Harrison and Flournoy Sts., Spaulding and Homan Aves.;

(b) Alley between Van Buren and Congress Sts., Washtenaw and California Aves.;

(c) Alley between Blackhawk and Division Sts., Holt and Dickson Aves.;

(d) Alley between Wabausia and North Aves., and Kedzie and Sawyer Aves.;

(e) Alley between Montrose and Cullom Aves., Ashland Ave. and Paulina St.;

(f) Archer Ave., from Kedzie to Central Park Aves.;

(g) Devon Ave., from Clark St. to Ravenswood Ave.;

(h) Harrison St., from Cicero to Laramie Aves.;

(i) Hayne Ave., from West 47th to West 51st Sts.;

(j) Karlov Ave., from West 12th to West 16th Sts.;

(k) Keating St., from Belmont to Addison Sts.;

(l) Kolin St., from 14th to 16th Sts.;

(m) Lawrence Ave., from Milwaukee to Austin Aves.;

(n) Leavitt St., from Wabausia St. to Milwaukee Ave.;

(o) Longwood Dr., from 114th Pl. to 119th St.;

(p) Morgan St., from West 75th to West 76th Sts.;

(q) Otto St., from Robey St. to Ravenswood Ave.;

(r) South Chicago Ave., from East 87th to East 89th Sts.;

(s) South Park Ave., from East 95th to East 104th Sts.;

(t) West 35th Pl., from Halsted to Morgan Sts.;

(u) South Wabash Ave., 429 ft. extending north and south of East 108th St.;

(v) Windsor Ave., from Milwaukee Ave. to Lavergue St.;

(w) West 18th St., from Central Park Ave. to 1st alley west and alley between West 16th St., Ogden Ave., Central Park and Millard Aves.;

(x) Lafayette Ave., from West 65th to West 69th Sts., West 66th St. from State St. to Wentworth Ave., West 68th St., from Vincennes to Wentworth Aves.;

(y) North Claremont St. from Devon to Granville Aves., Oakley St. from Devon to Granville Aves., Irving St. from Devon to Granville Aves., Rosemont Ave. from West Ave. to Leavitt St., Highland Ave. from Irving to Leavitt Sts., Thom Ave. from Irving to Leavitt Sts.;

(z) Cornelia Ave. from Kildare Ave. to Chicago, Milwaukee & St. Paul R.R. tracks, Roscoe St. from Kedvale Ave. to Chicago, Milwaukee & St. Paul R.R. tracks, Henderson St. from Karlov Ave. to Chicago, Milwaukee & St. Paul R.R. tracks, School St. from Karlov Ave. to Chicago, Milwaukee & St. Paul R.R. tracks, Melrose St. from Karlov Ave. to Chicago, Milwaukee & St. Paul R.R. tracks, Karlov Ave. from School St. to Milwaukee Ave., Kedvale Ave. from Henderson St. to Milwaukee Ave., Keeler Ave. from Belmont St. to Milwaukee Ave., Lowell Ave. from Roscoe to Milwaukee Ave., from J. Dillon & Co., 179 West Washington St.;

(a) $5261, (c) $16,070; Central Paving Co., 179 West Washington St., (a) $5298, (b) $9372, (c) $15,880, (d) $7513, (e) $7281, (n) $5250, (w) $19,647;

Marquette Constr. Co., 133 West Washington St., (a) $5329, (b) $9342, (c) $16,097, (d) $7459, (e) $7328, (g) $19,817;

P. J. O'Brien Co., 29 South La Salle St., (b) $9251, (d) $7567;

Contg. & Material Co., 10 South La Salle St., (e) $7422, (n) $5429, (w) $19,631, (y) $63,361;

Reidy & Callahan, (f) $66,452, (r) $58,115, (s) $80,890;

J. A. Sackley & Co., 133 West Washington St., (f) $67,108, (g) $19,718, (h) $46,545, (m) $101,083, (s) $80,610, (w) $19,926, (y) $62,649;

Smith & Brown, 128 North La Salle St., (f) $67,096, (g) $19,569, (h) $47,303, (m) $100,995;

Ryan Co., 4500 West Division St., (h) $47,208, (m) $99,267, (r) $57,830;

R. F. Conway Co., 133 West Washington St., (i) $34,395, (j) $35,925, (k) $30,806, (n) $5429, (p) $10,226, (q) $14,832, (t) $14,642, (v) $11,888, (x) $59,659, (y) $63,361, (z) $112,187;

Amer. Asphalt Paving Co., 133 West Washington St., (i) $34,637, (j) $35,544, (k) $31,429, (l) $11,533, (o) $39,758, (p) $10,148, (q) $14,812, (t) $14,714, (v) $11,969, (x) $59,261, (z) $112,831;

White Paving Co., 17 North La Salle St., (i) $34,985, (k) $31,373, (o) $41,113, (p) $10,302, (q) $15,033, (t) $15,047, (z) $110,149;

Standard Paving Co., 29 South La Salle St., (j) $35,007, (l) $11,455, (x) $60,390;

F. P. McCormick Co., (l) $11,563, (v) $12,014;

Calumet Teaming & Contg. Co., (r) $57,046, (s) $80,890, (u) $5810;

Farr Bros., 356 West 111th St., (s) $76,378, (u) $5494;

J. A. McGarry Co., 189 West Madison St., (y) $61,381. Noted June 5.

★**Ia., Des Moines**—Comrs. Polk Co. let contract paving West 23rd St. from Washington to Lincoln Aves., Olive St. from 16th to 20th Sts. and Park St. from 15th to 16th Sts., asphaltic concrete, 40-60 ft. wide, to J. Horrabin & Co., 1422 Walnut St., $3.29 per sq.yd.

★**Minn., Austin**—Comrs. Mower Co. let contract grading and graveling 27 mi. Federal Aid Project No. 38, State Rd. No. 1, to Boynton & Church, Minneapolis, $106,935. Noted May 22.

★**Minn., Cambridge**—Comrs. Isanti Co. let contract grading and graveling 5.5 mi. Federal Aid Project No. 41, State Rd. No. 1, to S. J. Grove & Sons, 100 Kasota Bldg., Minneapolis, $0.46 per cu.yd. for excav. and $1.10 per cu.yd. for graveling to 1 mi. haul. Noted May 15.

Minn., Glenwood—Comrs. Pipe Co. received bids grading and graveling 12 mi. Federal Aid Project No. 47, State Rd. No. 2, 24 ft. wide, from H. H. Beall Glenwood, $69,515; Studer & Manion, Excelsior, $76,200; Groves & Son, 100 Kasota Bldg., Minneapolis, $76,400. Noted May 15.

★**Minn., Mahnomen**—Comrs. Mahnomen Co. let contract building 4 mi. Federal Aid Project No. 102, State Rd. No. 3 (renumbered 50), to D. W. Daggett, Frazee, $13,691. Noted May 8.

★**Minn., Red Wing**—Comrs. Goodhue Co. let contract building 5.5 mi. road, to Grant Smith Co., 1505 Pioneer Bldg., St. Paul, $2.04 per sq.yd. Work involves 1200 cu.yd. excav., 55,120 sq.yd. pavement, etc.

★**Minn., Warren**—Comrs. Marshall Co. let contracts, to Moer, Sollam & Gjovik, Warren, building, grading and graveling 6½ mi. Job No. 1902, State Rd. No. 4, involving 24,407 cu.yd. excav., 3543 cu.yd. overhaul, 1422 cu.yd. hand ditching, etc., cost $9558; to S. G. Ensbak, Warren, grading and graveling Job No. 1904, State Rd. No. 4, $7822; 13 mi. Job No. 1906, State Rd. No. 3, 60,000 cu.yd. grading, 5000 cu.yd. excav., 5 acres clearing and grubbing, etc., $13,335; P. P. Reverson, Warren, Job No. 1807, State Rd. No. 4, $1548.

Minn., Worthington—Comrs. Nobles Co. received bids paving 5.5 mi. and grading and graveling 24 mi. Federal Aid Project No. 58, 18-24 ft. wide, from Johnson & Drake, 905 Plymouth Bldg., Minneapolis, $2.99 for paving, $0.60 for excav.; Campbell Constr. Co., 3050 Hennepin Ave., Minneapolis, $3.10 paving; Lameroux Bros., Sioux City, Ia., $3.50 paving, $0.47 excav. Noted May 22.

★**Neb., Albion**—City let contract to Natl. Roofing Co., 627 Paxton Blk., Omaha, paving various streets, 18,000 yd. paving, at $2.88 per yd., 10,000 ft. curb and gutter, $1.20 per ft. Total cost, $63,840.

★**Neb., Lincoln**—City let contract paving and grading 2500 ft. 22nd, Starr, 30th, Franklin and J Sts., to Abel Constr. Co., 318-19 Terminal Bldg., $19,584.

★**Neb., Omaha**—Douglas Co. let contracts to Murphy Constr. Co., 204-6 Karbach Blk., repaving 2613 lin.ft. Vinton St. from 13th to 20th Sts., 40 ft. wide, $44,500; paving 1 mi. Martha St. from 10th to 24th Sts., 24 ft. wide, involving 2000 cu.yd. grading, and 12,114 sq.yd. concrete on 6 in. concrete base, $30,558; 1950 lin.ft. Browne St. from 25th Ave. to 30th St., 24 ft. wide, involving 2000 cu.yd. grading and 4742 sq.yd. concrete on 6 in. concrete base, $12,333.

★**N. D., Minot**—Comrs. Ward Co. let contract building 5.04 mi. Federal Aid Project No. 25, gravel, to Minot Constr. Co., Minot, $31,513. Noted May 15.

★**Wyoming** — State Highway Comrs., Cheyenne, let contracts grading and graveling 11.27 mi. Hat Creek-Warren Rd., Niobrara Co., to W. F. Dunn, Casper, cost $20,948; 26.87 mi. Laramie-North Park Rd. between Laramie and Woods Landing, Albany Co., to Cook & O'Brien Constr. Co., Kansas City, Mo. $122,289.

★**Mont., Hardin**—City let contract paving Custer, Center and Cheyenne Aves., to S. Birch & Son, 211 Front St., Fargo, N. D. About $101,000. Noted May 15.

★**Ark., Harrisburg**—Comrs. Ozark Trail Rd. Impvt. Dist., Poinsett Co., Marked Tree, let contract, to McWilliams Co., Inc., Exch. Bldg., Memphis, Tenn., building 16 mi. earth embankment, involving 21 acres clearing at $40 per acre, 36 acres clearing and grubbing at $200 per acre, 227,200 cu. yd. earth excav., $0.45 per cu.yd., 5000 cu.yd. ditch excav., $0.30 per cu.yd., 90 cu.yd. plain Class "B" concrete $24 per cu.yd. 1340 lin.ft. 18 in. and 450 lin.ft. 24 in. corrugated metal pipe, $2.25 and $3.00 per lin.ft. respectively. Total cost, $118,305. Noted May 8.

★**Ark., Osceola**—Comrs. Rd. Impvt. Dist. No. 5, Mississippi Co., let contract to J. R. Drace, Main St., Deckerville, grading 45 mi. earth road, 22 ft. crown, involving 136 acres clearing and grubbing at $25 and $175 per acre; 140,000 cu.yd. excav. at $0.40 per cu.yd.; 1530 lin.ft. 18 in., 480 lin. ft. 24 in. and 100 ft. 36 in. concrete pipe at $1.50, $2.50 and $5.00 per lin.ft.; 1530 lin.ft. 18 in., 480 lin.ft. 24 in., 100 lin.ft. 36 in. vitr. pipe at $1.50, $2.50 and $5.00 per lin. ft.; 1530 lin.ft. 18 in., 480 lin.ft. 24 in. and 100 lin.ft. 36 in. corrugated pipe at $1.50, $2.50 and $5.00 per lin.ft., 70 cu.yd. concrete at $25 per cu.yd. Noted May 22.

★**Ariz., Tombstone**—Comrs. Cochise Co. let contract grading 16 mi. Douglas-East Highway to R. Mackey, Johnson.

★**Wash., Ellensburg**—Comrs. Kittitas Co. let contract building 2.4 mi. Permanent Highway No. 8, 26 ft. wide, involving 12,352 cu.yd. grading, to Anderson & Hutter, Cle Elum. About $10,400.

★**Wash., Seattle**—Comrs. King Co. let contract grading and paving 4.5 mi. Kent-Auburn Rd., concrete, 20 ft. wide, to Galts & Brennan, Seaboard Bldg., $117,500. Noted Bay 15.

Wash., Vancouver—Comrs. Clarke Co. received bids June 7, building 6½ mi. Sara-Ridgefield Rd. from Permanent Highway No. 6 and Pacific Junction to Fruit Valley-Sara Rd., from Warren Constr. Co., Journal Bldg., Portland, gravel bitulithic, at $2.47 per yd., total cost $152,183; United Contg. Co., Northwest Bank Bldg., Portland, standard bitulithic at $2.49 per yd., $156,644. Noted May 29.

★**Oregon**—State Highway Comn., Portland, let contracts grading and macadamizing 12.3 mi. Arlington-Morrow Co. Line Rd., Gilliam Co., 16 ft. wide, involving 25,000 cu.yd. rock surfacing, 88,000 cu.yd. mixed excav., to M. J. Conley, Portland, $179,570; 6.2 mi. Newberg-West Dayton Sect. of West Side Highway, Yamhill Co., 12,400 cu.yd. rock and 27,000 cu.yd. earth excav., to E. E. Cummings, Portland, r.o.b. gravel and concrete pipe, $60,333; 6.7 mi. Roseburg-Dillard Rd., 7500 cu.yd. rock surfacing, 52,000 cu.yd. excav., to Logan & Colby, Glendale, broken stone and concrete pipe, $90,753; 7.2 mi. Jacques Pl-Johns Pl. Rd., 11,200 cu.yd. rock surfacing, 28,000 cu.yd. excav., to Joplin & Eldon, Gasco Bldg., r.o.b. gravel and iron pipe, $70,810; grading and paving, 7.3 mi.

Streets and Roads (Continued)

Oakland-Wilbur Rd., 26,000 cu.yd. excav., to Clarke & Henry, Portland, bitulithic E, $204,204; 2.1 mi. The Dalles-Chenowith Sect. of Columbia River Highway, Wasco Co., 8000 cu.yd. excav., to United Constr. Co., Northwest Bank Bldg., bitulithic E, concrete pipe, $56,613; 1.5 mi. road on Benton Co. line, to O. Huber, Sherlock Bldg., Portland, bitulithic F, $31,635; paving 11.2 mi. Rainier-Catskanie Sect. Columbia River Highway, Columbia Co., to Warren Constr. Co., Journal Bldg., bitulithic E, $195,812; also grading 1.75 mi. Ruthton Hill-Hood River Sect. Columbia River Highway, Hood River, 12,000 cu.yd. excav., and 22.3 mi. Cascade Locks-Hood River Rd., to G. E. Kibbe, Portland, concrete pipe, $21,200, and bitulithic E concrete base and shoulder, $423,670, respectively.

★**Oregon**—State Highway Comn., Portland, let contracts, to Warren Constr. Co., Journal Bldg., Portland, paving 4.9 mi. Wolf Creek-Grave Creek Rd., Josephine Co., bitulithic E, $105,528, 20 mi. Deer Island-Rainier Rd., 12 ft. wide, asphaltic concrete, $353,319, 5 mi. Hemlock-Beaver Rd., bitulithic E, $109,043, 8.3 mi. from Richreall to Independence via Monmouth, bitulithic E, $204,122; to Pirham, Brown, Dean & Hague, 14 mi. Marshfield-Coquille Rd., Coos Co., concrete No. 2, $318,781; to A. D. Kern, 7 mi. road from Jefferson north, Marion Co., bitulithic E, $133,008; to L. O. Herrold, grading 14.2 mi. Scappoose-Deer Island Rd., Columbia Co., involving 70,000 cu.yd. excav., $68,581; to Joplin & Eldon, Gasco Bldg., Portland, 4.5 mi. Stage Rd. Pass to Wolf Creek, Josephine Co., 38,000 cu.yd. excav., $38,197; to J. H. Hawley & Co., Divide, 1.2 mi. road Divide to Douglas Co. line, Lane Co., 9500 cu.yd. excav., $11,145; to Clarke & Henry Constr. Co., 38 South Sutter St., Stockton, Cal., 8.9 mi. Central Point-Gold Hill Rd., bitulithic D, $231,690; to J. A. Hoskins, Baker, grading and graveling 18.75 mi. Baker-Middle Bridge Rd., 78,000 cu.yd. excav., 3500 cu.yd. gravel surfacing, $80,723. Noted Apr. 17.

★**Ore., Astoria**—City let contracts to Miller & Bauer, Panama Bldg., Portland, improving 4th St. from Spokane, Portland & Seattle R. R. right of way to 4th St., cost, $7218, from Astor St. to Spokane, Portland & Seattle R.R. right of way, $8338, 16th St. from Franklin to Duane Sts., $5647.

★**Ore., Astoria**—City let contract paving Jerome St., to J. Slotti, Astoria, $48,840. Work involves 7640 sq.yd. mixed concrete, 3810 lin.ft. concrete curbing, 5240 sq.ft. concrete sidewalk, 5230 cu.yd. earth excav., etc.

★**Ore., Marshfield**—City let contract paving North Bway. and 1 block of Park Ave., to Scandia Co., $38,122. Noted May 15.

Ore., Portland—City received bids June 4, improving sections of (a) Leland St. and Dekum Ave., (b) East Sherman St. from Stratford-Sydney Addition to 34th St., (c) East 11th St. from East Davis to Flanders Sts., from S. Simonsen, (a) asphaltic concrete No. 1 on crushed rock base in roadway, $1.80 per sq.yd., concrete No. 1 in track, $2.20 per sq.yd., total cost, $22,600; (b) asphaltic concrete No. 1 on crushed rock base, $1.90 per sq.yd., $1875; Warren Constr. Co., Journal Bldg., (a) asphaltic concrete No. 1 on crushed rock base, $1.90, concrete No. 1 in track, $2.00, $22,257, (c) asphaltic concrete No. 1, redress, $1.30, $2916; Cochran Bros., (a) concrete No. 1 in roadway, $2.05, concrete No. 1 in track, $2.05, $23,512, (b) concrete pavement No. 1, $2.00, $2026.

Ore., Portland—City received bids June 4, improving (a) East 51st St. from Sandy Blvd. to Fremont St., (b) East 33rd St. from East Glisan to Hoyt Sts., (c) Boise St. from East 39th to 42nd Sts., (1) concrete No. 1, (2) asphaltic concrete No. 1 on crushed rock base, (3) macadam, from Cochran Bros., (a1) $2.15 per sq.yd., total cost, $12,127; Warren Constr. Co., Journal Bldg., (a2) $1.90, $10,735, (b2) $1.94, $1789; S. Simonsen, (a2) $1.80, $10,343, (b2) $1.80, $1689; Star Sand Co., (c3) $4733. Noted June 5.

California—State Highway Comn., 515 Forum Bldg., Sacramento, received bids building Sect. D, Route 10, Div. 6, Federal Aid Project No. 11, Fresno Co., from J. G. Donovan, 2202 South Westmoreland St., Los Angeles, $128,997; W. A. Dontanville, Arroyo Grande, $138,467; Palmer & McBryde, Hooker & Lent Bldg., San Francisco, $148,534; Sect. F, Route 2, Div. 5, Federal Aid Project No. 15, Monterey Co., Healy-Tibbitts Constr. Co., 9 Main St., San Francisco, $234,317; Clinton Constr. Co. of California, 357 Pine St., San Francisco, $241,359; Cahill-Vensario Co., San Francisco, $242,872; Sect. A, Route 18, Div. 6, Federal Aid Project No. 12, Merced Co., J. E. Johnston, Tracy, $140,202; J. E. Lee, Tulare, $142,750; White & Gaskill, Long Beach, $147,960. Noted June 5.

★**Cal., Marysville**—City let contract improving B, 5th, 6th, D and 12th Sts., to Federal Constr. Co., Call Bldg., San Francisco, $83,779. Plans include concrete paving, cement curbs and gutters and concrete and galvanized iron culverts.

★**Cal., San Diego**—City let contract improving Jackdaw and Hunter Sts. and Avalon Ave., to Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, $32,763. Noted June 12.

★**Cal., Santa Barbara**—City let contract improving West Montecito St. and Cliff Dr. to Fairchild-Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, about $61,009. Noted May 29.

★**Ont., Niagara Falls**—City Council let contract paving 1¼ mi. River Rd. connecting Fort Erie, with Niagara on Lake, to Standard Paving Co., Central Chambers, Ottawa, $88,000.

★**Ont., Ottawa**—Bd. Control let contract repaving Bank St. subway, asphalt and wood block, to O'Learys Ltd., Rideau St., $34,048. Noted Feb. 13.

★**Ont., Pickering**—Dept. Highways, Toronto, rejected bids building highway from westerly limit of here, to Whitby. Work will be done by day labor at rate of $18,000 per mi. for waterbound macadam, $23,000 per mi. bituminous macadam, $28,000 per mi. cement concrete and $35,000 per mi. brick. Noted Apr. 17.

Railways

PROPOSED WORK

New Jersey—See "Miscellaneous" under Rahway.

West Virginia—Morgantown & Wheeling Ry., Morgantown, receives bids about July 1, extending line from Morgantown to Waynesburg, Pa., and rebuilding bridge at Barker. About $150,000. R. D. Hennen, Morgantown, ch. engr.

North Dakota—Dickinson & South Western Ry., Dickinson, plans to build 70 mi. line from Dickinson to Bierman, through Slope and Stark Counties. About $200,000.

North Dakota—Great Northern Ry., St. Paul, Minn., having surveys made for 2 mi. spur tracks from Noonan to mines southeast of city. A. H. Hogeland, ch. engr.

Texas—Atchison, Topeka & Santa Fe R. R. having preliminary plans prepared building extension to line from Plainville to Ft. Worth, 300 mi. F. M. Bisbee, Amarillo, ch. engr.

Oregon—See "Industrial Works" under Glenbrook.

Ontario—City of St. Thomas authorized M. Ferguson, city engr., to repair and overhaul street railway system, including new trackage, rebuilding cars, etc. About $42,000.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract-

★**Tennessee—Morristown** — Sneedville & Kyle Ford Electric R. R., Charleston, will build 49.5 mi. railway and 4000 hp. hydroelectric power plant, including dam, tunnel, etc. About $500,000. Work will be done by day labor.

★**California**—Bd. Pub. Wks., San Francisco let contract relocating railway tracks from Franklin and Union Sts. to Van Ness Ave., to Healy-Tibbitts Constr. Co., 9 Main St., San Francisco, $23,274; for poles and wire for project, to Eccles & Smith, 71 1st St., San Francisco, $1424.

Excavation and Dredging

PROPOSED WORK

Miss., Macon—Draining—Noxubee Co. D. D. No. 1, recently organized, plans to drain Noxubee River swamp consisting of 50,000 acres of land. Address A. T. Dent, Macon.

Mich., Detroit—Excavation—See "Streets & Roads."

BIDS DESIRED

Fla., Sanford—Ditches—Until July 7, by Comr. Seminole Co., building 9.18 mi. ditches involving 58,660 cu.yd. excav. Former bids rejected. F. F. Williams, Sanford, engr. Noted May 22.

La., Krotz Springs—Ditches—See "Streets and Roads."

Minn., Bemidji—Excavation—See "Streets and Roads."

Minn., Duluth—Excavation—Until June 23, by J. A. Farrell, city comr., grading 4050 ft. 8th and 9th Sts. from 14th Ave. E., to Woodland Ave., 42 ft. wide, for approaches to Chester Creek Bridge. About $18,453. Work involves 14,300 cu.yd. earth excav.

Minn., Redwood Falls—Ditch—Until June 27, by Comrs. Redwood Co., building Ditch No. 49, Sect. 1, involving 147,202 cu. yd. excav., cost, $19,136; Sect. 2, 133,122 cu.yd. excav., $17,293; Sect. 3, 25,835 ft. 6-28 in. tile, 6 inlets and 1 bulkhead containing 5 cu.yd. concrete, $16,700. L. Myron, Redwood Falls, engr.

Ore., Salem—Ditch—See "Waterworks."

Cal., Sacramento — Excavation — See "Streets and Roads" under California.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Pa., New Castle**—Excavation—City let contract for the change, alteration and relocation of course of Channel of Neshannock Creek; also building retaining wall along right bank, to Woods & Golder Constr. Co., Mechanic St., $59,906. Noted May 22.

★**Ga., Atlanta**—See "Industrial Works."

Miss., Marks—Dredging—Comrs. Newsum Lake D. D. received bids for 10 mi. levees and 12 mi. ditch work, in Quitman and Tallahatchie Counties, from McWilliams Co., Inc., Exch. Bldg., Memphis, Tenn., $.185 per cu.yd. for levees and ditches; Kohler Contg. Co., 608 Globe Bldg., Minneapolis, $.145 cu.yd. for ditches only. Noted May 22.

★**Minn., Gaylord**—Ditch—Comrs. Sibley Co. let contract for labor building Judicial Ditch No. 7 in Sibley, Nicollet and Renville Counties, to E. D. Barr, Clements, $11.74 per cu.yd.; tile, to W. H. Guigsberg, Gaylord, $119,149. Noted May 15.

★**Neb., Tekamah** — Dredging — Burt-Washington D. D. let contract cleaning out 7 mi. main ditches and 8 mi. laterals, involving 330,000 cu.yd. excav., to Callahan-Walker Dredging Co., 410 Bee Bldg., Omaha, $55,800.

★**Ore., Portland** — Excavation — State Highway Comn., Portland, let contract removing slide from Myrtle Creek to Dillard, Douglas Co., to H. J. Hildeburn, Roseburg, $19,550. Work involves 30,000 cu.yd. excav.

Industrial Works

PROPOSED WORKS

Mass., Westfield—Natl. Pulp Corp., 505 5th Ave., New York City, plans to build plant along Westfield River. About $200,000.

R. I., Providence—A. H. Carruthers, Orms St., plans to build 2 or 3 story, 80 x 90 ft. brick addition to garage and service station, rein.-con. flooring, concrete foundation. About $30,000. Page & Page, 87 Weybosset St., archts.

Conn., Bridgeport—City having plans prepared by Davis & Dane, archts., 1024 Main St., for garage on Washington Ave. About $150,000. J. A. McElroy, city engr. Noted May 22.

Conn., Bristol — Station — New York, New Haven & Hartford R.R., New Haven, plans to build 2 story passenger station on North Main St., here. About $175,000. E. Gagel, New Haven, ch. engr.

Conn., Hartford—Automatic Refrigerating Co., 89 Willow St., plans to alter and build brick, concrete and steel addition to boiler house, rein.-con. flooring, concrete foundation, on Capital Ave. Ext. About $30,000.

Conn., Stamford—Carlisle-Cord-Tire Co. soon lets contract building 1 story, 150 x 250 ft. concrete and steel factory, rein.-con. flooring, concrete foundation, on Fairfield Ave. About $100,000. Noted Apr. 17 under "Bridgeport."

Conn., Winnipauk (Norwalk P. O.)—Norwalk Tire & Rubber Co. plans to build new rein.-con. addition to factory. About $100,000.

N. Y., Brooklyn—Koch & Wagner, archts., 42 Court St., receive bids about June 20, building 3 story, 30 x 40 ft. storage plant and 4 story, 70 x 180 ft. factory, brick and steel, rein.-con. flooring, concrete foundation, on 19th St. and 3rd Ave. for R. H. Comey & Co., 73 19th St. About $50,000.

Industrial Works (Continued)

N. Y., Brooklyn—L. Nodica, 250 Troutman St., having plans prepared by C. P. Cannella, archt., 1163 Herkimer St., for 1 story, 50 x 90 ft. brick and steel factory, rein.-con. flooring, concrete foundation, on Troutman St. and Knickerbocker Ave. About $35,000.

N. Y., Dansville—Power Specialty Co., Cumminsville St., having plans prepared for 2 story, brick addition to plant. About $25,000.

N. Y., Edmeston—Phoenix Cheese Co., Potsdam, had plans prepared by C. E. Eaton, engr., Sherman Bldg., Watertown, for cheese factory and milk station here. About $100,000. Address B. N. Snell, Potsdam, pres.

N. Y., Middletown—Dundee Textile Co., Clifton, N. J., had plans prepared by D. Seabury, engr., 12 East Ave., Pawtucket, R. I., for 1 story, 125 x 130 ft. and 25 x 30 ft. brick and mill construction mill, here. About $35,000.

N. Y., New York—D. Meenan, 1966 Bway., having plans prepared by J. C. Cocker, archt., 2017 5th Ave., for 6 story, 90 x 100 ft. brick and steel garage, rein.-con. flooring, concrete foundation, at 430-436 West 55th St. About $200,000.

N. Y., New York—New York Edison Co., Irving Pl. and 15th St., having plans prepared by W. Whitehill, archt., 32 Union Sq., for 3 story, 45 x 75 ft. brick and steel transformer station, rein.-con. flooring, concrete foundation, at 421-423 East 6th St. About $60,000.

N. Y., Syracuse—Ho-De-No-Sau-Nee Trading Co., Inc., recently incorporated with $350,000 capital stock, purchased site on Wolf and South West Sts. and plans to alter and build additions to present plant, cost $60,000; also build new side tracks from Lackawanna R.R. and new steel bridge over Onondaga Creek. Address J. R. Wertman, Syracuse, dir.

N. J., Rahway—See "Miscellaneous."

Pa., Chester—Aberfoyle Mfg. Co., 4th St. and Morton Ave., plans to build 3 story, 50 x 121 ft. addition to plant.

+Pa., Phila.—A. Spangler, Howard and Thompson Sts., let contract building 1 story, 109 x 500 ft. concrete and brick factory, to J. S. Rogers, Drexel Bldg. About $25,000.

Pa., Phila.—Vigogne Mills, Unity and Oakland Sts., having plans prepared by M. W. Easly, engr., 1420 Chestnut St., building 3 story, 65 x 250 ft. factory, brick and slow burning construction.

Pa., Imperial—Imperial Cooperative Assn. having plans prepared by J. H. Philips, archt., Fulton Bldg., Pittsburgh, for 2 story, 50 x 100 ft. warehouse, stone foundation.

Pa., South Bethlehem—J. Preletz, East 4th St., plans to build 3 story, 72 x 80 ft., concrete warehouse and garage. D. J. Pappans, 1401 South 13th St., archt.

Md., Baltimore—Williams & Wilkins Co., 2419 Greenmount Ave., plans to build 2 story, 80 x 110 ft., rein.-con., brick and stone, printing plant, concrete foundation, on Guilford Ave. near Chase St. About $75,000. H. F. Doelman, 507 North Charles St., engr., and J. E. Lafferty, 11 East Pleasant St., consult. archt.

Md., Baltimore—L. Rothchild archt. 1225 Sanson St., Phila., receives bids about June 21, building 4 story, 40 x 110 ft., steel service and sales building on North Ave. and Oak St., for L. M. Reinhart, here.

Va., Richmond—Seventh St. Garage Co., 30 North 9th St., plans to build 3 story, 135 x 135 ft., rein.-con., steel and brick garage, granolithic flooring, on 7th and Leigh Sts. About $75,000. Committee from firm will close contracts for work without formal advertising and letting.

W. Va., Huntington—J. M. McCoach Co., 7th Ave. and 13th St., receives bids in fall building 4 story, brick, steel and concrete addition to ice and cold storage plant, to increase ice capacity from 120 to 225 tons daily and coal storage from 30,000 to 100,000 bbls. daily. About $200,000. Architect not selected.

Fla., Winter Haven—Winter Haven Citrus Growers Assn. soon receives bids building packing plant. About $75,000. Engineer or architect not selected.

O., Cleveland—Hudson Stuyvesant Co., 1923 Prospect Ave., had plans prepared for 1 story, 63 x 179 ft., rein.-con., steel and brick factory and office addition. About $40,000.

O., Dayton—Edwards Specialty Co., 1133 South Brown St., plans to build 2 story, 60 x 125 ft. rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Main and Bruen Sts. About $50,000. Frank-Hill-Smith Co., Inc., West 3rd St., Dayton, archts. and engrs.

O., Springfield—P. Crabill, c/o Central Brass Co., Jefferson and Ziegler Sts., plans to build 3 story, 50 x 180 ft., rein.-con. and brick garage and salesroom, rein.-con. flooring, concrete foundation, on West High St. About $65,000. R. Gable, Springfield, archt.

O., Springfield—Crowell Publishing Co., High and Wittenberg Sts., plans to build 5-story, 66 x 180 ft., rein.-con., brick and steel printing plant, rein.-con. flooring, concrete foundation, on West High St. About $100,000. Frank-Hill-Smith Co., Inc., West 3rd St., Dayton, archts. and engrs.

O., Springfield—Excelsior Drill Co., East Columbia St., plans to build factory. About $50,000. Architect not selected.

Mich., Detroit—Columbia Motor Car Co., 1256 Jefferson Ave., E., plans to build brick and steel factory to contain 150,000 sq.ft. floor space on Boyd and Fort St., E. A. T. O'Connor, secy.

Mich., Detroit—Liberty Starter Co., West Fort St., plans to build 4 story, rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation, on Fort and 15th Sts. Mildner & Eisen, 924 Hammond Bldg., archts.

Mich., Escanaba—Escanaba Wood Fiber Co. plans to build 3 story paper mill. About $750,000. Engineer not selected.

Ill., East St. Louis—O'Neil Lumber Co., Kingshighway and Swan Aves., St. Louis, Mo., purchased site here along Terminal R. R. tracks from Lincoln to Collinsville Rds., and plans to build lumber mill, warehouses, switches and office building. About $75,000.

Ill., Woodriver—White Star Refining Co., Avery St. and Grand Trunk Ry., Detroit, Mich., having plans prepared for refinery and pipe line from here to Mississippi River. About $300,000.

Wis., Beaver Dam—E. Dode plans to build 2 story, 60 x 150 ft. brick garage. About $25,000.

Wis., Fond du Lac—Nunn, Bush & Weldon Shoe Co., 1110 5th St., Milwaukee, having plans prepared by H. J. Esser, archt., Camp Bldg., Milwaukee, for 3 story, 50 x 340 ft. brick, rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on Superior St., here. About $200,000.

Wis., Milwaukee—Chevrolet Motor Co., Plankinton Arcade, plans to build 2 story rein.-con. and brick garage and show room, rein.-con. flooring, concrete foundation. About $100,000. Architect not selected.

Wis., Milwaukee—Inglis Mfg. Co., c/o A. Wiggins, 283 5th St., plans to build 3 story rein.-con. and brick factory, rein.-con. flooring, concrete foundation. About $125,000. Private plans.

Wis., Milwaukee—Jaeger Baking Co., Central Ave., plans to build 3 story, 100 x 100 ft. brick and steel bakery, rein.-con. flooring, concrete foundation. About $100,000. Work will be done by day labor under supervision of L. S. Beardsley, archt., 40 East 32nd St., New York City.

Wis., Milwaukee—Janke Shoe Mfg. Co., 762 32nd St., having plans prepared by G. A. Dick, archt., 811 State St., for 3 story, 35 x 120 ft. rein.-con. and brick factory, rein.-con. flooring, concrete foundation, at 762 32nd St. About $25,000. Noted Jan. 30.

Wis., Milwaukee—Sivyer Steel Casting Co., 37th Ave., plans to build 2 story addition to plant in Lake Twp. About $45,000.

Wis., Milwaukee—Zucker & Weinshel, 785 5th St., soon lets contract building 2 story, 40 x 130 ft. brick, rein.-con. and steel factory, rein.-con. flooring, concrete foundation. About $40,000. Leiser & Holst, Brumder Bldg., archts.

Wis., Plymouth—C. Kade Fixture Co., c/o C. Kade, plans to build 3 story, 60 x 110 ft., brick and rein.-con. factory, brick foundation, on Pleasant St. About $60,000. Architect not selected.

Wis., Sheboygan—R. R. Jahn, archt., Betsy Ross Bldg., soon lets contract building 2 story, 60 x 90 ft., brick, rein.-con. and steel garage on Center Ave., for Rummelle Auto Co., 706 Center Ave. About $52,000.

Wis., Sheboygan—Natl. Box & Novelty Co., 8th St., having plans prepared by Juul & Smith, archts., Imig. Bldg., for 4 story, 60 x 150 ft. brick, rein.-con. and steel factory, brick foundation, on 14th St. and Kentucky Ave. About $55,000. E. A. Juul, Imig. Bldg., engr. Noted June 12.

Wis., Sheboygan—Sells Bros. Co., c/o C. Sell, 901-907 North 8th St., plans to build 2 story, 40 x 90 ft. brick, rein.-con. and steel garage, rein.con. flooring, brick foundation, on 8th and Niagara Sts. R. R. Jahn, Betsy Ross Bldg., archt.

Wis., Vesper—J. B. Faas, Sheboygan, plans to build 2 story, 60 x 140 ft. rein.-con. and brick factory, concrete foundation, on Main St. About $30,000. Architect not selected.

Ia., Des Moines—Union Impvt. Trust Co., 607 Mulberry St., plans to build 2 story fireproof garage. About $200,000.

Minn., Austin—Bd. Educ. having plans prepared by F. Tustison, archt., 355 Auditorium Bldg., Minneapolis, building central boiler plant and installing mechanical equipment for junior and senior high school, old and new buildings. About $150,000.

Minn., Hinckley—City voted $30,000 bonds to build electric light plant and water-works. A. J. Hunt, city clk.

Minn., Minneapolis—See "Buildings."

Minn., Wells—City having plans prepared by C. L. Pillsbury Co., engrs., Metropolitan Bldg., Minneapolis, building electric power plant and distribution system and concrete reservoir. About $40,000. Noted May 15.

Kan., Topeka—J. C. Holland & Son, archts., 719 Mills Bldg., prepared plans for 2 story, 100 x 151 ft., rein.-con. and brick garage, rein.-con. flooring, concrete foundation. About $60,000. Owner's name withheld.

Kan., Wichita—E. W. Lewis soon receives bids building 5 story, 50 x 140 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on North Lawrence St. About $60,000. Schuler & Burlie, Wichita, archts.

N. D., Minot—Grams Bros. plan to build 50 x 140 ft. brick bakery. About $50,000. G. H. Bergenhagen, Minot, archt.

Mont., Great Falls—State Bd. Examiners, Helena, receives bids about July 1, building terminal grain elevator. About $230,000. J. Stewart Eng. Co., 110 South Dearborn St., Chicago, archts. Noted Feb. 27.

Mo., St. Louis—P. J. Bradshaw, archt., International Life Bldg., soon receives bids building 3 story, 150 x 250 ft., rein.-con., steel and brick machine shops and salesroom, rein.-con. flooring, concrete foundation, on 19th and Locust Sts., for Washington University Corp., Skinker Rd. and Lindell St. About $250,000. Weber Motor Car Co., 221-7 Locust St., and Weber Implement & Automobile Co., 1900 Locust St., lessees.

Mo., St. Louis—E. J. Hess, archt., 3226 Magnolia Ave., soon lets contract building 5 story, 54 x 135 ft., rein.-con., steel and brick factory, rein.-con. flooring, concrete foundation, at 1409-11 Washington Ave., for Golluber Millinery Co., 1329 Washington Ave.

Okla., Tahlequah—City voted $200,000 bonds for purchasing site, building and installing electric light plant, etc. E. M. Covel, clk.

Okla., Tulsa—Armour & Co., Union Stock Yards, Chicago, Ill., and 120 Bway., New York City, had plans prepared for 3 story, 75 x 175 ft. rein.-con. and steel packing plant, rein.-con. flooring, concrete foundation. About $200,000.

Industrial Works (Continued)

Idaho, Nampa—Wilson Orchard Co. plans to build 60 x 100 ft. packing house, capactiy 1600 boxes and 2 loading platforms, one 16 x 100 ft. and one 16 x 60 ft. Architect not selected.

Ariz., Mesa—City election July 8 to vote on $35,000 bonds to build extensions to electric light system.

Wash., Montesano—Hoquiam Sash & Door Co., Hoquiam, plans to rebuild Montesano plant recently destroyed by fire. Cost $200,000 of which ½ will be borne by company, balance already subscribed by Montesano citizens.

Wash., Wenatchee—New Phez Co. and L. Lachmund, 925 Court St., Salem, Ore., plan to build pasteurized cider and preserving plant on site of H. E. Farwell property, consisting of 40 x 100 ft. concrete building; same to be replaced later by 200 x 400 ft. structure. P. G. Schmidt, Wenatchee, pres. Architect not selected.

Ore., Glenbrook—Alsea Lumber Co., Eugene, plans to build 150,000 ft. capacity sawmill at terminus of Alpine branch of west line of Spokane, Portland & Seattle R. R., also build logging railway from sawmill to their timber tract in Coast Range Mountains. E. B. Kingman, pres.

Ore., Klamath Falls—Klamath Heating Co. plans to build central heating plant; mill and sawdust refuse to be used for fuel. About $40,000; funds to be supplied by local capitalists.

Ore., Marshfield—See "Miscellaneous."

Ore., Salem—State Highway Comn., Portland, soon lets contract building 2 story, 60 x 80 ft. timber garage and 1 story, 70 x 80 ft. timber warehouse, at State Penitentiary brick yards here. H. Nunn, c/o State Highway Dept., Salem, engr.

Cal., Calexico—City defeated $325,000 bond issue to build electric light and gas plants. Noted May 1.

Cal., Coburn—Switzer & Meyerberg having plans prepared by F. R. Spangler, archt., King City, for 2 story, rein.-con. creamery, concrete foundation. About $45,000.

Cal., Long Beach—Riblet Carburetor Co., 319 East Bway., plans to build factory. About $25,000. E. S. Beggs, mgr.

Cal., San Francisco—N. Capro and A. Podesta, c/o L. Mastropasqua, archt., 580 Washington St., having plans prepared for 2 story, 67 x 136 ft., rein.-con. garage and shop, rein.-con. flooring, concrete foundation, on Vallejo St. near Powell St. About $25,000.

Que., Roberval—Municipal Council plans to build extension to hydroelectric plant. About $25,000. J. F. Grenon, Chicoutimi, engr.

Que., Val Jalbert—Chicoutimi Paper & Pulp Co., Chicoutimi, having plans prepared by A. Lamontagne, archt., Chicoutimi, building brick and concrete factory, concrete foundation. About $75,000.

Ont., Bancroft—Canada Marble Co., plans to build marble plant. About $500,000. Architect not selected.

Ont., Parry Sound—J. D. Broughton, twp. clk. & treas., soon lets contract building power plant, (1) general works, including power dam, intake, conduit, generating station and tailrace; (2) mill lake dam, (3) roadway fill; (4) hydraulic equipment; (5) electrical equipment. About $200,000. C. H. & P. H. Mitchell, Bank of Hamilton Bldg., Toronto, engrs.

Ont., Toronto—Cowan Co., Ltd., 72 Sterling Rd., having plans prepared by B. H. Prack, archt., Lumsden Bldg., for 5 story, steel and brick addition to present plant. About $40,000.

Ont., Weston—K and S Canadian Tire & Rubber Co. having plans prepared by Hynes, Feldman & Watson, archts., McKinnon Bldg., Toronto, building 1 story, brick and steel factory. About $80,000.

B. C., New Westminster—Canadian Western Cordage Co., recently organized, purchased site on banks of Fraser River and plans to build plant for manufacture of rope and twine. Cost, including machinery, $250,000.

BIDS DESIRED

N. Y., Flushing—Until July 15, by E. S. Walsh, supt. pub. wks., Capitol, Albany, building barge canal terminal and timber freighthouse here. Contr. 43; advertised in this issue.

N. Y., Long Island City—Until June 21, by Ballinger & Perrott, archts. and engrs., 47 West 34th St., for 4 story, 40 x 110 ft. rein.-con. and steel addition to factory, rein.-con. flooring, concrete foundation, on Van Dam St. and Borden Ave. here., for Patterson-Sargent Co., 8 Jay St., New York City. About $200,000.

N. Y., New York—Until June 21, A. G. Koenig, archt. and engr., 405 Lexington Ave., converting 3 story, 62 x 84 ft. rein.-con. and steel brewery into ice plant, rein.-con. flooring, concrete foundation, on 169th St. and 3rd Ave., for J. Eichler Brewing Co., 3582 3rd Ave. About $37,000. Noted June 5.

N. Y., New York—Until June 21, by C. Kreymborg, archt. and engr., 163rd St. and Park Ave., building 1 story, 100 x 200 ft. brick and steel factory, rein.-con. flooring, concrete foundation, on Bush Ave. near 177th St., for Finkel Umbrella Frame Co., 2534 East 177th St. About $75,000.

N. Y., Potsdam—Until June 26, by T. E. Finegan, deputy comr. educ., Education Bldg., Albany, building 54 x 64 ft. steel boiler house, 45 ft. high, concrete walls, etc. About $65,000. L. F. Pilcher, Capitol, Albany, state archt.

Ill., Chicago—F. W. Perkins, archt., 7524 Stewart Ave., receiving bids for 2 story, 50 x 190 ft. brick and timber service building, brick foundation, at 2440 Michigan Ave., for Marion Motor Co., 2450 South Michigan Ave. About $60,000.

Wis., Park Falls—Until June 20, by E. Vincent, building 2 story, 50 x 120 ft. brick and tile garage and auto sales room, rein.-con. flooring, concrete foundation, on 9th St. About $60,000. R. A. Messmer & Bros., Majestic Bldg., Milwaukee, archts.

Wis., Sheboygan—Until June 20, by North Star Rubber Co., Michigan Ave., building 2 story, 60 x 90 ft. brick, rein.-con. and steel factory, concrete foundation, at 816-20 Michigan Ave. About $35,000. Noted June 12.

Minn., Hastings—Until July 1, by State Bd. Control, Capital, St. Paul, building 1 story, 45 x 140 ft., rein.-con. and brick power plant. About $150,000. C. L. Pillsbury, Metropolitan Life Bldg., Minneapolis, engrs. Noted May 15.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Me., South Portland** (Portland P. O.)—Mexican Petroleum Co., Ligonia St., let contract building 1 story, 30 x 61 ft. rein.-con. and steel garage, concrete foundation and ⅛ mi. concrete road, to T. I. Ellis, 171 Westminster St., Providence, R. I. About $40,000.

★**Mass., Boston**—W. London Co., 18 Tremont St., will build 2 story, 100 x 120 ft. rein.-con. garage and storehouse, rein.-con. flooring, concrete foundation, on Commonwealth Ave. About $125,000. Work will be done by day labor.

★**Mass., Brighton** (Boston P. O.)—W. London, 18 Tremont St., Boston, will build 2 story rein.-con. service station, rein.-con. flooring, concrete foundation, on Fordham St. About $100,000. Work will be done by day labor.

★**Mass., Cambridge**—Massachusetts Institute of Technology will build 1 and 2 story, 60 x 300 ft. service building to include carpenter shop, foundry, pipe shop, etc. Work will be done by day labor.

★**Mass., Cambridge**—Page & Shaw Co., 9 West St., Boston, let contract building 5 story, 50 x 130 ft. rein.-con. factory, rein.-con. flooring, concrete foundation, on Ames St., here, to E. A. Abbott Co., 185 Devonshire St., Boston.

★**Mass., Fall River**—J. U. Gagnon, 480 South Main St., let contract building 2 story, 50 x 112 ft., brick and mill construction addition to garage, concrete foundation, to A. Leclair, 1233 South Main St. About $25,000.

★**Mass., Malden**—Boston Dye House let contract building 3 story, 40 x 100 ft. dye house, 1 story, 30 x 60 ft. naphtha house, and 1 story, 30 x 60 ft. garage, brick and rein.-con., rein.-con. flooring, concrete and brick foundation, on Main and Eastern Sts., to C. H. Tenney & Co., Devonshire St., Boston. About $50,000. Noted Mar. 6.

★**Mass., New Bedford**—Butler Mills, Federal St., Boston, let contract building 2 story, rein.-con. mill, rein.-con. flooring, concrete foundation, on Ruth Ave., here, to Aberthaw Constr. Co., 27 School St., Boston. About $100,000. Noted June 12.

★**Mass., New Bedford**—D. Daff & Son, 634 Pleasant St., let contract building 2 story, 75 x 130 ft., brick, steel and rein.-con. garage, rein.-con. flooring, concrete foundation, on Fish Island, to J. W. Bishop Co., Purchase St. About $40,000.

★**Mass., Newton** (Boston P. O.)—City let contract building 2 story, 56 x 96 ft., concrete, repair service plant, rein.-con. flooring, concrete foundation, on Crafts St., to J. W. Duff Co., 146 Summer St., Boston. About $38,000.

★**Mass., Springfield**—Springfield Warehouse Trust Co., 385 Liberty St., will make interior and exterior alterations to brick warehouse, concrete foundation. About $30,000. Work will be done by day labor.

★**R. I. Woonsocket**—Woonsocket Falls Mills Corp., South Main St., let contract building 3 story, 60 x 197 ft. brick mill, concrete foundation, to Eastern Constr. Co., 660 Winter St. About $80,000.

★**Conn., Bridgeport**—Fletcher-Thompson, Inc., engrs., 1089 Broad St., let contract to Flynt Bldg. & Constr. Co., Palmer, building 2 story, 68 x 200 ft. rein.-con. factory and 26 x 26 ft. brick and concrete power house, rein.-con. flooring, concrete foundation, on Benham Ave., for Nichols Underwear Corp., 371 James St. About $100,000. Noted May 22.

★**Conn., Hartford**—C. F. T. Seaverns, 129 Lafayette St., let contract building 2 story, 33 x 40 ft., brick, concrete and steel garage and sales room, rein.-con. flooring, concrete foundation, on Asylum St., to Porteus-Walker Co., 13 Forest St. About $25,000.

★**Conn., New Britain**—Fafnir Bearing Co., Booth St., let contract building 4 story, 50 x 95 ft. and 16 x 22 ft. brick and steel addition to factory, concrete foundation, on Orange St., to J. H. Grozier Co., 721 Main St., Hartford. About $50,000.

★**Conn., New Haven**—Seamless Rubber Co., 534 Congress Ave., let contract building three 5 story, 60 x 240 ft., factories, and two 1 story connecting buildings; also large power house, brick, steel and rein.-con., rein.-con. flooring, concrete foundation, on Hallock Ave., to Aberthaw Constr. Co., 27 School St., Boston. About $500,000.

★**Conn., Stamford**—A. G. Jessup, 212 Canal St., let contract building 1 story, 43 x 142 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on Main St., to K. O. Haugen, Givens Ave. About $15,000.

★**N. Y., Brooklyn**—M. Applebaum, 58 Sutter Ave., will build 1 story, 50 x 100 ft. brick and steel garage, rein.-con. flooring, concrete foundation, on Osborne and Liberty Sts. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Chauncey Garage Constr. Co., 1520 President St., will build 1 story, 95 x 100 ft., brick and steel garage, rein.-con. flooring, concrete foundation, on Chauncey St. and Evergreen Ave. About $26,000. Work will be done by day labor.

★**N. Y., Brooklyn**—B. A. Cushman Sons Inc., 44 Manhattan St., New York City, let contract building 3 story, 140 x 200 ft. brick and steel bakery, rein.-con. flooring, brick foundation, on Atlantic and Troy Aves., here, to United States Structural Steel Co., 841 Bway., New York City. About $100,000. Noted May 29.

★**N. Y., Brooklyn**—Moran Realty Constr. Co., 189 Patchen Ave., will build 1 story, 75 x 200 ft. brick and steel garage, rein.-con. flooring, brick foundation, on North 12th and Berry Sts. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—D. P. Samon, 245 Bush St., let contract building 1 story brick and steel garage, rein.-con. flooring, concrete foundation, on Center and Court Sts., to F. M. Walsh, 374 Hamilton Ave. About $25,000.

★**N. Y., Buffalo**—Wheat Ice Cream Co., 235 Elm St., let contract building 2 story, 92 x 150 ft. rein.-con. garage, rein.-con. flooring, concrete foundation, on Elm St., to B. I. Crooker Co., Builders Exch. About $66,500. Noted June 12.

★**N. Y., Jamaica**—Shore Instrument Mfg. Co., 527 West 22nd St., New York City, let contract building 3 story, 60 x 100 ft. brick and steel factory, rein.-con. flooring, concrete foundation, on Van Wyck Ave. and Caroll St., to Richmond Hill Eng. Constr. Co., 2124 Jamaica Ave. About $30,000.

Industrial Works (Continued)

★**N. Y., New York—G. Keister, archt.,** 56 West 45th St., let contract, to Lordi Constr. Co., 260 East 201st St., building 4 story, 42 x 98 ft. brick and steel warehouse, rein.-con. flooring, concrete foundation, at 233-235 West 35th St., for W. H. Hussey & Son, 150 West 35th St. About $75,000. Noted Apr. 10.

★**N. Y., New York—G. Kern, 350 West** 38th St., will build 5 story, 50 x 100 ft. brick and steel garage, rein.-con. flooring, concrete foundation, at 349-353 West 37th St. About $75,000. Work will be done by day labor under supervision of F. J. McCabe, archt. and engr., City Savings Bank Bldg., Bridgeport, Conn.

★**N. Y., New York**—Quick Service Wet Wash Laundry Co., Inc., 302 East 98th St., let contract building 3 story, 100 x 111 ft., rein.-con. and steel laundry, rein.-con. flooring, concrete foundation, on 99th St., between 1st and 2nd Aves., to Crest Constr. Co., 299 Bway. About $45,000. Noted Jan. 30, under "Rapid Laundry Co."

★**N. Y., New York**—Terminal Warehouse Co., 17 South William St., let contract building 9 story, brick and stone warehouse, rein.-con. flooring, concrete foundation, at 29-31 South William St., to R. Beeves & Son, 309 Bway. About $100,000. Noted June 5.

★**N. J., Avenel**—Steel Equipment Corp. let contract building 2 story, 80 x 160 ft., rein.-con. and brick factory, to Austin Co., Bulletin Bldg., Phila.

★**N. J., Collingswood**—Camden Motor Corp., c/o D. M. Davis, 20 Temple Bldg., Camden, let contract building 1 story, 75 x 300 ft., rein.con., brick and steel factory, on White Horse Pike and Pennsylvania R.R. to J. S. Rogers Co., Drexel Bldg., Phila. About $100,000. Noted Apr. 3.

★**Pa., Phila.**—Bailey, Banks & Biddle, 1218 Chestnut St., let contract building 12 story, 43 x 80 ft., concrete and brick factory, at 1220-24 Sansom St., to Irwin & Leighton, 126 North 12th St. About $180,000.

★**Pa., Phila**—Keystone Pure Oil Co., Broad St., let contract building 2 story, 76 x 150 ft., rein.-con. and brick factory, to F. A. Havens, 845 North 19th St. About $40,000.

★**Pa., Pittsburgh**—Painter—Dunn Overland Co., 4860 Center Ave., let contract building 1 story, 100 x 150 ft., rein.-con. garage on Centre Ave., to D. T. Riffle, Keenan Bldg.; $42,429. Noted Apr. 24.

★**Pa., Tamaqua**—B. R. Stevens, archt., 1737 Filbert St., Phila., let contract building 2 story, 87 x 101 ft., concrete and brick factory, for M. & G. Ice and Ice Cream Co., to H. E. Baton, 1713 Sansom St., Phila. About $50,000. Noted Apr. 17.

Pa., Wissinoming (Phila. P. O.)—Quaker City Rubber Co., 629 Market St., Phila., let contract building 2 story, 140 x 160 ft., rein.-con. and brick factory, here, to J. S. Rogers, Drexel Bldg., Phila.

★**Md., Baltimore**—City Spring Wks., Park Ave. and Preston St., let contract building 1 story, 100 x 150 ft., brick factory, brick and rock foundation, to T. A. Merryman, 16 Hamilton Ave., Hamilton. About $25,000.

★**Md., Highlandtown** (Baltimore P. O.)—Jones & Lamb Co., Pennsylvania and Fulton Aves., let contract remodeling plant of Monumental Brewery Co. and constructing several rein.-con., steel and brick buildings, rein.-con. flooring, rein.-con. foundation, on Lombard St. to Consolidated Eng. Co., 243 Calvert Bldg., Baltimore. About $25,000. Noted June 12.

★**Md., Sparrows Point**—E. Snavely let contract building 1 and 2 story, 100 x 150 ft. garage and storage building, to Gladfelter & Chambers, 36th St. and Poland Ave., Baltimore. About $50,000.

★**Va., Richmond**—Spotless Co., 1017-27 East Canal St., let contract building 7 story, 130 x 140 ft., rein.-con. warehouse and office, rein.-con. flooring, concrete foundation, on 10th and Canal Sts., to J. T. Wilson & Co., Mutual Bldg. About $225,000. Noted Apr. 10.

★**N. C., Hickory**—Hickory Overall Co. let contract building 2 story, 50 x 180 ft. brick factory, rein.-con. flooring, to Elliott Bldg. Co., Hickory. About $28,000.

★**N. C., Navassa—Morris Fertilizer Co.,** 3rd National Bank Bldg., Atlanta, Ga., let contract building plant, here, to Elliott Bldg. Co., Hickory. About $450,000. Plans include fertilizer and mill buildings, bag and nitre houses, office, wharf and electric railways and involves 2000 cu.yd. earth excav., 1000 cu.yd. earth fill, 500 cu.yd. rein.-con., 1300 cu.yd. mass concrete and 7200 lin.ft. wood piling, etc.

★**Ga., Atlanta**—Atlanta Milling Co., Butler St., let contract building rein.-con. grain elevator, with 200,000 bu. capacity, to Burrell Eng. & Contg. Co., 327 South La Salle St., Chicago. About $75,000.

★**O., Akron**—Central Garage Co., c/o J. A. Brittain, pres., 69 South Main St., let contract building 5 story, 200 x 400 ft., rein.-con. garage, rein.-con. flooring, concrete foundation, on Ash St., to Carmichael Constr. Co., 524 Hamilton Bldg. About $400,000.

★**O., Cleveland**—Cleveland Waste Paper Co., 1854 Columbus Rd., let contract building 3 story, 75 x 95 ft., rein.-con., steel and brick warehouse and factory, to M. Gold, 2321 East 100th St. About $50,000.

★**O., Cleveland**—East 97th-Euclid Co., 1900 Euclid Bldg., let contract building 2 story, 165 x 228 ft., rein.-con. steel and brick, car washing station, rein.-con. flooring, at 9803 Euclid Ave., to E. Paulson Co., 529 Erie Bldg. About $75,000.

★**O., Cleveland**—Hudson Stuyvesant Co., 1923 Prospect Ave., let contract building 1 story, 63 x 169 ft., rein.-con., steel and brick factory and office addition, to A. A. Lane Constr. Co., 1836 Euclid Ave. About $40,000.

★**O., Cleveland**—Jones Gear Co., Guardian Bldg., let contract building 2 story, 30 x 100 ft. and 110 x 310 ft., rein.-con., steel and brick factory and office, on Wayside Ave., to Minnick & Gibbons Co., 5309 Prospect Ave. About $150,000. Noted June 12.

★**O., Cleveland**—Republic Motor Truck Co., Alma, Mich., let contract building rein.-con., steel and brick gas engine plant, service and office buildings, rein.-con. flooring, concrete foundation, on Babbitt Rd., here, to Westinghouse, Church Kerr Co., 37 Wall St., New York City. Cost between $8,000,000 and $10,000,000. Cost plus percentage basis.

O., Cleveland—Sabin Machine Co., 6536 Carnegie Ave., let contract building 3 story, 45 x 80 ft., concrete, steel and brick addition to machine shop, to J. Grant & Son, 4500 Euclid Ave. About $30,000. Noted May 29.

★**O., Dayton**—Dayton Oxygen & Hydrogen Products Co., U. B. Annex, let contract building 2 story, 60 x 180 ft., factory on South Bway., to Blanchard Bldg Co., Dayton. About $45,000.

★**O., Kent**—Mason Cotton Fabrics Co. let contract building 3 and 4 story, rein.-con. and brick mill, rein.-con. flooring, concrete foundation, to have 125 sq.ft. floor space, to F. W. Mark Constr. Co., Cleveland. About $200,000. Noted May 8.

★**O., Middletown**—Gardner-Harvey Paper Co. let contract building 2 story, 35 x 250 ft. and 1 story, 65 x 80 ft. rein.-con. mill, rein.-con. flooring, concrete foundation, to Frank-Hill-Smith Co., Inc., West 3rd St., Dayton. About $30,000.

★**O., Springfield**—Amer. Seeding Machine Co., Conroe and Gallagher Sts., let contract building 2 story, 60 x 120 ft., steel and brick factory, brick foundation, to Concrete Steel Constr. Co., 415 Mitchell Bldg. About $35,000.

★**Ind., Indianapolis**—Home Elevator Co., 214 South Penn St., let contract building 1 story, 100 x 150 ft. brick factory, to W. P. Jungclaus, 825 Massachusetts Ave. About $40,000.

★**Mich., Flint**—Freeman Dairy Co. let contract building 3 story, 100 x 100 ft., fireproof milk depot, rein.-con. flooring, concrete foundation, to Dubois Constr. Co., Flint. About $100,000, time and percentage basis.

★**Ill., Rockford**—Eclipse Stone Co. let contract building brick and steel gray iron and stone casting foundry, rein.-con. flooring, concrete foundation, to Westinghouse, Church, Kerr, 37 Wall St., New York City. About $200,000. Cost plus percetage basis.

★**Ill., Venice**—Barber Asphalt Co. let contract building rein.-con. and steel refinery, to Fruin Colnon Constr. Co., Marchants-Laclede Bldg., St. Louis, Mo. About $150,000.

★**Wis., Janesville**—Parker Pen Co., East Milwaukee and North Bluff Sts., let contract building 3 story, rein.-con. and brick factory on Court St., to Raulfe Constr. Co., 426 Grand Ave., Milwaukee. About $100,000. Noted Mar. 6.

★**Wis., Milwaukee**—Amer. Hair Felt Co., 44th St. and Watertown Rd., plans to build 1 story, 50 x 100 ft. brick and concrete warehouse. Work will be done by day labor.

★**Wis., North Milwaukee**—Wisconsin Bridge & Iron Wks. will build 1 story, 150 x 160 ft. brick and steel factory addition, concrete foundation. About $50,000. Work will be done by day labor.

★**Wis., Wausau**—Marathon Shoe Co. let contract building 2 story, 50 x 100 ft. brick and mill construction factory, to Anderes & Co., Wausau. About $30,000. Noted Feb. 6.

★**Minn., Duluth**—Marshall-Wells Hardware Co., Lake Ave., S., let contract building 1 story, 200 x 265 ft., rein.-con. and steel warehouse, rein.-con. flooring, concrete foundation, to Jacobson Bros., 5th Ave., E., and Oneida St. About $100,000; cost plus percentage basis.

★**Kan., Ellis**—Colorado Milling & Elevator Co., 1441 7th St., Denver, Colo., let contract building rein.-con. elevator, rein.-con. flooring, concrete foundation, here, to Burrell Eng. & Constr. Co., Security Bldg., Kansas City, Mo. About $100,000. Cost plus percentage basis.

★**Kan., Kansas City**—Kaull Milling Co., Waldheim Bldg., Kansas City, Mo., let contract building 6 story, 36 x 109 ft., rein.-con. mill and warehouse, rein.-con. flooring, concrete foundation, on Mill St. and St. Louis & San Francisco R.R. tracks, to Eberhardt Constr. Co., Salina. About $400,000.

★**Kan., Topeka**—J. C. Holland & Son, archts., 719 Mills Bldg., let contract building 2 story, 100 x 151 ft., rein.-con. and brick garage, rein-con. flooring, to F. M. Spencer & Son, Mulvane Bldg. About $60,000. Cost plus percentage basis. Owner's name withheld.

★**Kan., Wichita**—Innes Dry Goods Co., Lawrence and Douglas Sts., let contract building 2 story, 125 x 255 ft., rein.-con. and brick warehouse, rein.-con. flooring, concrete foundation, to G. H. Siedhoff Constr. Co., 13th and Wabash Sts. About $100,000, cost plus percentage basis.

★**Mo., St. Louis**—Plant Milling Co., 105 Chouteau St., let contract building 5 story, 25x100 ft., rein.-con. and brick addition to flour mill, rein.-con. flooring, rock foundation, at 105-21 Chouteau St., to Fruin Colnon Constr. Co., Laclede Bldg. About $50,000.

★**N. B., Moncton**—A. Humphrey & Son Ltd., let contract building factory, to Jackson & Forest, 79 Fleet St. About $35,000.

★**Ont., Leamington**—Imperial Tobacco Co. let contract building 1 story, 125 x 250 ft. rein.-con. tobacco factory and 35 x 75 ft. power house, to Archibald & Holmes, Excelsior Life Bldg., Toronto. About $80,000.

Buildings

PROPOSED WORK

Mass., New Bedford—Theatre—K. Cohen, 225 Mt. Pleasant St., receives bids in July building 1 story, brick, theatre, (1500 seating capacity), concrete foundation, in North End. About $65,000. LaBrode & Ballard, Union St., archts.

Mass., Westfield—School—School Bd., Broad St., plans to build addition to Prospect Hill school. About $60,000. Architect not selected.

Mass., West Springfield—School—Town plans to build new school to replace present Tatham School. About $60,000. F. H. Sibley, clk. Architect not selected.

R. I., Providence—Museum—Rhode Island School of Design, Waterman St., plans to build 3 story museum and 3 story building to house collections of silverware and jewelry, brick and rein.-con., on Bene St. About $300,000. Bellows & Aldrich, 8 Beacon St., Boston, archts.

Conn., Bridgeport—Church—E. E. Benedict, archt., 51 Leavenworth St., Waterbury, receives bids about June 25, building 2 story, 60 x 80 ft. concrete, concrete foundation, on Colorado Ave., for Swedish Baptist congregation, Colorado Ave. About $50,000. Noted Mar. 27.

Conn., Bristol—Hotel—New Departure Mfg. Corp., 269 North Main St., having plans prepared by W. E. Hunt, archt., 182 South Main St., Torrington, for 6 story, 75 x 157 ft., brick, rein.-con. flooring, concrete foundation, on North Main St. About $200,000.

Buildings (Continued)

Conn., Hartford—Church—F. W. Parsons, archt., 1133 B'way, New York City, soon receives bids building 1 story 60 x 95 ft. brick church, rock foundation, on Albany Ave., for North Methodist congregation, Albany and Woodland St., to include auditorium, gymnasium, bowling alleys, etc. About $80,000.

Conn., New Britain—Business—G. C. Rogers, Fairview St., having plans prepared by C. C. Palmer, archt., 272 Main St., for 3 story, 65 x 110 ft., brick and steel, concrete foundation on Church St. About $50,000.

Conn., New Britain—Church—Swedish Bethany congregation, Main and Walnut Sts., plans to build brick church on Franklin Sq. About $75,000. Architect not selected.

Conn., Middleton—Hospitals—Connecticut State Hospital for Insane having plans prepared by D. K. Perry, archt., 79 Golf Maple Hill, New Britain, for brick and stone buildings on South Farms. About $175,000. Noted Feb. 6.

Conn., Middletown—Laboratory—Wesleyan University, 374 High St., plans to build chemical laboratory on college campus. About $100,000.

Conn., New Haven—Business—M. Miller, 135 Temple St., having plans prepared by Brown & Von Beren, archts., 185 Church St., for 2 story, 55 x 150 ft., brick and concrete, rein.-con. flooring, concrete foundation on Temple St., to include stores, bowling alleys, billiard parlor, etc. About $50,000.

Conn., New London—Bank—Natl. Bank of Commerce, 166 State St., purchased new site on State St. and plans to build banking house. About $100,000. B. A. Armstrong, pres. Architect not selected.

Conn., New London—Church—Methodist Episcopal congregation, 193 Hempstead St., receives bids about August building 2 story church. Estimate, $100,000. M. E. Genter, pastor. A. E. Hill, 75 Westminster St., Providence, archt. Noted Apr. 24.

Conn., Stamford—Parish—First Presbyterian congregation, Broad St., having plans prepared by R. Colt, archt., 85 Water St., Boston, for altering and building 2 story, stone and granite addition to present parish house, concrete foundation. About $50,000.

Conn., Waterbury—School—St. Margaret's School, Rose Hill, plans to build brick and fireproof addition to private school on Cook and Grove Sts., here. About $60,000. I. H. Chase, chn. Architect not selected.

Conn., Wethersfield—School—Town having plans prepared by D. K. Perry, archt., 79 Golf Maple Hill, New Britain, for 1 story, brick and steel school, rein-con. flooring, concrete foundation, in Griswoldville Sect. About $50,000.

N. Y., Adams—Bank—Citizens Natl. Bank plans to enlarge bank. About $60,000. H. H. Waite, pres.

N. Y., Brooklyn—Exchange—New York Telephone Co., 15 Dey St., New York City, had plans prepared by McKenzie, Voorhees & Gmelin, archts. and engrs., 1123 Bway., New York City, for 4 story, 60 x 125 ft. brick and steel, brick foundation, on 14th Ave. and 41st St. About $200,000.

N. Y., Buffalo—Office—Liberty Bank, Main and Court Sts., purchased 9000 sq ft. frontage on Court St. and plans to erect 15 or 20 story office building. Address A. Cabana, chn. bd. dirs.

N. Y., Long Island City—Bank—Ecob & Visscher, archts., 299 Madison Ave., New York City, receive bids about June 24, building 4 story, 80 x 100 ft. brick and stone, brick foundation, on Queensboro Bridge Plaza and Hunter Ave., here, for Long Island City Savings Bank. Noted May 15.

N. Y., New York—College—New York University, University Heights, having preliminary plans prepared by Crow, Lewis & Wick, archts. and engrs., 200 5th Ave., for 2 and 3 story buildings, to include 100 x 270 ft. engineering building and two 55 x 120 ft. library buildings, brick and steel, brick foundation. About $500,000.

N. Y., New York—Hotel—Parish & Shroeder, archts., 280 Madison Ave., receive bids about July 1, building 13 story, 98 x 120 ft. brick and steel, brick foundation, at 415 West 34th St., for Webster Apartments, 280 Madison Ave. About $528,000.

N. Y., New York—Post Office—N. C. Partos, c/o L. A. Sheinart, archt., 192 Bowery, having plans prepared for 3 story, 75 x 197 ft. brick and steel, brick foundation, at 122 East 23rd St. About $150,000.

N. Y., New York—Store—Shulte Cigar Stores Co., 386 Bway., having plans prepared by Rouse & Goldstone, archts., 512 5th Ave., for 1 story, 76 x 120 ft., brick and steel, brick foundation, on 96th St. and Bway. About $55,000.

N. Y., Richmond Hill—Theatre—M. Goodman, 247 Wykoff Ave., Brooklyn, having plans prepared by T. W. Lamb, archt., 644 8th Ave., New York City, for 3 story, 70 x 150 ft. brick and steel, brick foundation, on Boyd and Jamaica Aves., here. About $100,000.

N. Y., Rochester—Y. M. C. A. secured site, 120 ft. frontage on Monroe Ave., in 12th Ward, and plans to erect branch building. About $200,000. T. H. Sibley, chn.

N. Y., Watertown—Hotel—J. B. Taylor, Light & Power Bldg., purchased Woodruff Hotel and plans to make extensive alterations and improvements. Cost to exceed $75,000.

N. J., Newark—Theatre—M. Spiegel, Strand Theatre Bldg., New York City, soon receives bids building 1 story brick and steel, brick foundation on Broad St., here. About $100,000. T. W. Lamb, 644 8th Ave., New York City, archt.

N. J., Plainfield—School—Bd. Educ. having plans prepared by Wilder & White, archts., 50 Church St., New York City, for 2½ story, 55 x 150 ft., brick, steel and stone, brick foundation, on Emerson Ave. About $140,000.

N. J., Rahway—School—Bd. Educ. plans to build school. About $125,000. J. T. Rowland, 100 Sip. Ave., Jersey City, archt.

Pa., Phila.—Stations—Dept. City Transit, 1211 Chestnut St., receives bids in 2 weeks building two 20 x 50 ft. and two 40 x 40 ft. concrete and steel stations on York and Dauphin Sts., and Girard Ave. H. H. Quimby, engr., and C. T. Biswanger, archt., c/o of above.

Pa., Windber—Store—A. G. Bentley, Graham and Park Aves., plans to build 2 story, 50 x 120 ft. fireproof store to replace one destroyed by fire. About $55,000. Architect not selected.

Md., Baltimore—Colesseum—A. L. Forrest, archt., 11 East Pleasant St., receives bids about July 1, building 1 and 2 story, 200 x 200 ft., concrete and brick, concrete and brick foundation, for Colesseum Amusement Co., 3rd Ave. and O'Donnell St. About $50,000.

Md., Baltimore—Orphan Asylum—Hebrew Orphan Asylum, Rayner and Florence Aves., and S. Dansburgh, Baltimore Bargain House, 200 West Baltimore St., have raised $350,000 by public subscription for erection of cottage plan orphan asylum on site in suburbs to be selected. Cost of buildings, including main administration building, to exceed $200,000.

Md., Baltimore—Sales—See "Industrials."

W. Va., Madison—Bank—Madison Natl. Bank had plans prepared for 2 story, 62 x 85 ft., brick and stone, on Main St. About $50,000. H. R. Warren, Charleston, archt.

W. Va., Madison—Hotel—J. C. Kaufman, Logan, W. Va., plans to build 3 story, brick hotel here on Main St. About $55,000.

N. C., Greensboro—Auditorium—Bldg. Com. of Woman's College receives bids in July, building auditorium. About $100,000. C. H. Ireland, chn. A. Ten Eyck Brown, 717 Forsyth Bldg., Atlanta, Ga., archt.

N. C., High Point—Theatre—O. E. Kearns plans to build 2 story, 45 x 100 ft., brick, on South Main St. About $60,000.

Ga., Atlanta—Mosque—Yaarab Temple purchased site on Ivy and East Baker Sts. and plans to build. About $500,000. G. R. Donovan, chn.

Ga., Moultrie—Hospital—J. R. Hall, W. S. Vereen and others, organized stock company, and plan to build 3 story, 50 x 100 ft. brick, 1½ mi. from here. About $50,000. Architect not selected.

Fla., Gainesville—Schools—City voted $150,000 bonds to build 2 new schools.

Fla., Miami—Hotel—Price & McLanahan, archts., 908 Bellevue Court, Phila., receive bids about July building Hotel Flamingo, here, 17 story, 90 x 575 ft., rein.-con., brick and stucco, for C. G. Fisher, 434 N. Capitol Ave., and J. J. Allison, both of Indianapolis.

Ala., Anniston—Schools—City plans to issue $100,000 bonds to improve and build additions to schools.

Ala., Birmingham—Auditorium—W. L. Welton, archt., Amer. Trust Bldg., receives bids about July 15 building auditorium for Walker Memorial Methodist Church. About $50,000.

Ala., Birmingham—Office—Lincoln Reserve Life Insurance Co., Jefferson Co. Bank Bldg., purchased 50 x 100 ft. site on 4th Ave. and 22nd St. and plans to build fireproof. About $100,000. Architect not selected.

Tenn., Memphis—Theatre—Loews Theatres, 1492 Bway., New York City, having plans prepared by T. W. Lamb, archt., 644 8th Ave., New York City, for 2 story, 100 x 100 ft., brick and steel, brick foundation, on Union Ave., here. About $300,000.

O., Akron—Church—Swedish Lutheran congregation having plans prepared by Fichter & Brooker, archts., 606 Metropolitan Bldg., for 1 story, 50 x 120 ft., brick and tile, concrete foundation, in eastern section of city. About $50,000.

O., Cleveland—Club House—Pilgrim Church plans to build 5 story, 100 x 200 ft., rein.-con., steel and brick, on West 14th St. and Starkweather Ave. About $100,000. D. F. Bradley, West 14th St. and Starkweather Ave., pastor. Architect not selected.

O., Columbus—Optimetry—Ohio Optical Assn. plans to build 2 story, on Ohio State University campus. About $50,000. F. A. Stengel, Marion, secy. Architect not selected.

O., East Cleveland (Cleveland P. O.)—Hospital—City plans to build 6 story, 100 x 300 ft., rein.-con., steel and brick, on Euclid and Prospect Aves. About $250,000. C. M. Osborne, city mgr. Architect not selected.

O., Dayton—Club—Miami Valley Hunt & Polo Club plans to build country club house and stables on Lamb Rd. About $75,000. Architect not selected.

O., Springfield—Salesroom—See "Industrials"

O., Steubenville—Hotel—Steubenville Hotel Co., c/o W. R. Johnson, 4th and Main Sts., having plans prepared by F. Webber, archt. and engr., Morris Bldg., Phila., for 9 story, 64 x 181 ft., rein.-con., steel and brick, on 4th and Main Sts. Noted May 1.

Mich., Detroit—Hall—Detroit Exhibition Bldg. Co., c/o Brown & Preston, archts. and engrs., Empire Bldg., having preliminary plans prepared for 1 and 2 story, 400 x 600 ft., concrete, brick and steel, convention hall, concrete foundation. C. G. Armstrong, secy.

Mich., Detroit—Hotel—Detroit Hotel Assn., c/o G. S. Green, 1 McGraw Bldg., plans to build 24 story, 120 x 250 ft., rein.-con., brick and steel, on Madison, Witheral and Adams Aves. About $6,000,000.

Mich., Detroit—Theatre, Store and Office—Victory Theatre Co., 1140 Penobscot Bldg., having plans prepared by C. H. Crane and E. G. Kiehler, archts., 2325 Dime Bank Bldg., for 2 story, rein.-con., steel and terra cotta, rein.-con. flooring, concrete foundation, on Michigan Ave. and 52nd St. About $300,000.

Mich., Port Huron—Gymnasium and Auditorium—City soon receives bids building 2 story, rein.-con., brick and steel addition to Washington School, concrete foundation, White St. About $70,000. G. L. Harvey, Huron Ave., archt.

Mich., Strathmoor—School—School Board, Dist. No. 4, Greenfield Twp., plans to sell $75,000 bonds to build school. H. T. Hart, P. O. Box No. 84, dir.

Ill., Chicago—Home—A. Foster, archt., 155 North Clark St., soon receives bids building 3 story, 40 x 160 ft. rein.-con. "V" shaped maternity home, rein.-con. flooring, concrete foundation, on 47th St. and Sacramento Blvd., for Archbishop Mundelein, Chicago Ave. and State St. About $100,000.

Ill., Chicago—Hotel—Chicago Beach Hotel Co., 51st and Cornell Sts., having plans prepared by G. C. Nimmons & Co., archts., 122 South Michigan Ave., for 12 story, 223 x 233 ft. "L" shaped, rein.-con., rein.-con. flooring, concrete foundation. About $1,250,000. J. C. Hately, pres.

Ill., East St. Louis—Office—See "Industrial Works."

Buildings (Continued)

Ill., Johnson City—High School—School Bd. sold $63,000 bonds to build high school.

Wis., Eau Claire—Hotel—E. Hutchens, archt. and engr., 703 Wisconsin St., preparing plans for 6 story hotel, for Eau Clair Hotel Co.

Wis., Milwaukee—Club—B. P. O. E. Lodge No. 46, 450 Jefferson St., had sketches made by R. Messmer & Bro., archts., Majestic Bldg., for 17 story, 100 x 150 ft. brick, rein.-con. and steel, rein.-con. flooring, concrete foundation. About $1,600,000.

Wis., Milwaukee—Hotel—O. Brachman, 1st Natl. Bank Bldg., having plans prepared by M. Tullgren & Sons, archts., 1st Natl. Bank Bldg., for 8 story, 135 x 180 ft. rein.-con. and brick, rein.-con. flooring, concrete foundation, on Astor St. and Juneau Ave. About $650,000. Noted Jan. 23.

Wis., Neenah—Temple—Masonic Lodge, 145 West Wisconsin Ave., plans to build 3 story, 60 x 120 ft. About $60,000. Architect not selected.

Wis., Oshkosh—School—School Bd. having plans prepared by Auler & Jensen, archts., F. R. A. Bldg., for 2 story, 96 x 127 ft., on Sawyer Ave. About $115,000. Noted Feb. 27.

Ia., Council Bluffs—School—Proudfoot, Bird & Rawson, archts., Hubbell Bldg., Des Moines, receive bids about July 1, building 2 story, 100 x 325 ft., brick and stone on B'way. between 25th and 26th Sts., for Council Bluffs School Dist. About $275,000. Noted May 1.

Ia., Des Moines—High Schools—Bd. Educ. having plans prepared by Proudfoot, Bird and Rawson, archts., Hubbell Bldg., for 2 schools, to be known as Theodore Roosevelt and Abraham Lincoln Schools. Bonds for $500,000 already voted for project and additional bonds will be voted later for completion of work.

Ia., Winterset—High School—City voted $150,000 bonds to build high school.

Minn., Crookston—Dining Hall—State Bd. Control, Capitol, St. Paul, having plans prepared by C. H. Johnston, archt., 715 Capital Bank Bldg., St. Paul, for 3 story, 55 x 115 ft., with wing 40 x 40 ft., at State Experimental Farm. About $85,000.

Minn., Duluth—School—Bd. Educ. plans to build school. About $100,000. Croft & Boerner, 710 Place Bldg., Minneapolis, archts and engrs.

Minn., Hibbing—Bank—First Natl. Bank receives bids early in July, building 2 story, 100 x 100 ft., brick. About $150,000. A. Moorman & Co., 501 Minnesota St., St. Paul, archt. and engr.

Minn., Minneapolis—Business, etc.—State Bd. Control, Capitol, St. Paul, having plans prepared by C. H. Johnston, archt., 715 Capital Bank Bldg., St. Paul, for 6 story, rein.-con. business building, storehouse and shops, cost, $125,000; 2 story, 40 x 120 ft., rein.-con., brick and terra cotta addition to Shevlin Hall, $50,000; 4 story, rein.-con. and brick addition to University High School, $50,000, all at University of Minnesota.

Minn., Minneapolis—Church—First Baptist congregation plans to build church on 10th St. and Harmon Pl. About $300,000. W. B. Riley, 4025 Linden Hills Blvd., pastor. Architect not selected.

Minn., Minneapolis—School—Bd. Educ. having plans prepared for 2 story, 25 room school, on Minnehaha Ave. About $150,000. E. H. Enger, c/o Bd. Educ., Courthouse, archt.

Minn., Minneapolis—Schools—Bd. Educ. plans to build grade school on 2nd Ave. S. and East 40th St., cost, $150,000; 2 story school, to be known as Louis Agassiz School, $100,000. E. H. Enger, c/o Bd. Educ., Courthouse, engr.

Minn., Morris—Dormitory — State Bd. Control, Capitol, St. Paul, having plans prepared by C. H. Johnston, archt., 715 Capitol Bank Bldg., St. Paul, for 2 story, rein.-con. and brick, at West Central State School of Agriculture. About $75,000.

Minn., St. Paul—Store—Emporium, East 7th St., plans to remodel 6 story, 75 x 100 ft. About $250,000. A. McLeod, pres.

Kan., Eldorado—Memorial—City plans to build 2 story, 75 x 135 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation. About $100,000. G. P. Washburn & Son, Ottawa, archts. B. C. Wells, city clk.

Kan., Great Bend—School—Bd. Educ. having plans prepared by Owen & Payson, archts., 202 Reliance Bldg., Kansas City, Mo., for 1 story, 130 x 140 ft., brick, hollow tile and stucco, concrete foundation. About $50,000.

Kan., Hutchinson — Bank—State Exch. Bank, c/o F. W. Cotter, pres., plans to build 75 x 150 ft., fireproof. Cost between $250,000 and $300,000. Architect not selected.

Kan., Salina—Hotel—Planters Hotel Co. soon receives bids building 4 story, 100 x 120 ft., concrete, steel and brick, concrete foundation. About $150,000. C. W. Shaver, Salina, archt.

Neb., Falls City—Court House—Richardson Co. plans election to vote on $200,000 bonds to build fireproof courthouse. K. W. Daggett, clk. W. E. Hulse & Co., Hutchinson, Kan., archt.

N. D., Valley City—High School—Bd. Educ. soon lets contract building 3 story, brick. About $91,000. E. H. McFarland, Valley City, archt. Noted Mar. 27.

Mo., St. Louis—Hotel—Company being organized to build 100 x 170 ft. hotel on corner of Belt and Pershing Sts. Cost to exceed $100,000. Address Rosenbaum-Hauschulte Real Estate Co., 2407 North Bway.

Mo., St. Louis—Salesroom—See "Industrials."

Tex., Wichita Falls—Business and Hotel—J. F. Long plans to build 3 story, 100 x 150 ft. brick and fireproof, rein.-con. flooring, concrete foundation. About $65,000. W. V. Street, Wichita, Kan., archt.

Okla., Tulsa—Church—Protestant Episcopal congregation, 918 South Boulder St., plans to build church on 13th and South Boulder Sts. About $150,000. A. Abel, pastor. Engineer and architect not selected.

Okla., Tulsa—Office—J. M. Gillette, 202 Seaman Bldg., plans to build 10 story, 150 x 200 ft. on 5th and Boulder Sts. About $1,000,000. Engineer and architect not selected.

Idaho, Pocatello—Hotel—Hotel Bannock Co. plans to build 300 room, fireproof hotel. About $500,000. Architect not selected. W. H. Cleare and C. A. Valentine, Pocatello, incorporators.

Nev., Winnemucca—Court House—Comrs. Humboldt Co. soon receive bids building 2 story, rein.-con and stone About $120,000. Noted Feb. 27.

Ariz., Phoenix—School—School Trustees soon receive bids building 2 story, 80 x 210 ft., containing manual training department, etc. About $160,000. Marsh, Howard & Wallingford, 211 Bway. Central Bank Bldg., Los Angeles, archts. Former contract rescinded. Noted June 5.

Wash., Yakima—Church — First Methodist congregation making preliminary plans for combining $100,000 church fund with Congregational fund of $40,000 for building union church here. Architect not selected.

Ore., Hillsboro—Business—Weil Bros. plan to build 2 story, 100 x 100 ft. brick business block. Claussen & Claussen, Macleay Bldg., Portland, archts.

Ore., Portland — Hospital—City voted $350,000 bonds toward building reconstruction hospital. Total cost, $500,000. O. Laurgaard, city engr.

Cal., Bakersfield—School—City defeated $150,000 bonds to build Lincoln School. Noted May 29.

Cal., Eureka—School—State having revised plans prepared by G. B. McDougall, archt., 515 Forum Bldg., Sacramento, for Normal School, here. About $230,000.

Cal., Fresno—Office—A. Mattei having plans prepared by E. Mathewson, archt., 428 Cory Bldg., for 12 story, 50 x 150 ft., rein.-con., brick and terra cotta, rein.-con. flooring, concrete foundation, on Fresno and J Sts. About $400,000.

Cal., Hermosa Beach—School—School Trustees having plans prepared by H. C. Howard, archt., Hermosa Beach, for 2 story brick school and auditorium. $60,000 bonds voted for project.

Cal., Long Beach—Auditorium and Community Hall, etc.—City election soon to vote on $1,000,000 bonds to purchase 360 x 416 ft. site and build combined auditorium and community building; city hall; improve parks; and buy site and build rein.-con. open air theatre and band stand. E. E. Tincher, comr. pub. affairs.

Cal., Los Angeles—School—Bd. Educ., 730 Security Bldg., having plans prepared by Hunt & Burns, archts., Laughlin Bldg., for 2 story, brick, concrete foundation. About $50,000. A. M. Sheldon, clk.

Cal., Red Bluff—Court House—Tehama Co. election July 1 to vote on $200,000 bonds to build courthouse.

Cal., Redlands—Hall, Dormitory and Library—Redlands University plans to build science hall, dormitory and library. About $150,000.

Cal., Redwood City—Fire House—See "Sewers."

Cal., San Francisco—Orphanage—Pacific Hebrew Asylum and Home Society having plans prepared by A. H. Jacobs, archt., 110 Sutter St., for group of about twelve 1 and 2 story, brick and frame buildings, on Ocean Ave., near Westwood Park. About $500,000.

Cal., Whittier—Hospital — City having plans prepared by Allison & Allison, archts., 1105 Hibernian Bldg., Los Angeles, for hospital. C. O. Trueblood, clk. About $50,000.

Que., Cap de la Madeleine—Church and Presbytery—St. Famile Church plans to build brick, steel and concrete. About $120,000. J. E. Gascon, Three Rivers, archt.

Que., Limoilou—School—Protestant Bd. School Comrs. plans to build 3 story, fireproof. Architect not selected.

Ont., Hamilton—Church—Roman Catholic congregation plans to build stone and steel. About $100,000. T. J. Dowling, 354 King St., pastor. Architect not selected.

Ont., Kitchener—School—Bd. Educ. soon receives bids building addition to Victoria School. About $60,000. C. Knechtel Kitchener, archt.

Ont., Toronto—Office—Imperial Bank of Canada, 32 Wellington St., E., plans to build 28 story 60 x 90 ft., steel, on King and Yonge Sts. About $1,500,000. Architect not selected.

BIDS DESIRED

Mass., New Bedford—Theatre—Until July 15, by S. Mechaver, Acushnet Ave., building 2 story, brick, rein.-con. flooring, concrete foundation. (2500 seating capacity). About $100,000. LaBrode & Bullard, Union St., archts.

Mass., Waltham (Boston P. O.)—School—Until June 25, by Supt. Schools, High School Bldg., for 2 story, 119 x 156 ft. brick, on School St. About $225,000. C. G. Loring, 7 Water St., Boston, archt.

Conn., Hartford—Sales, etc.—Until June 25, by M. J. Unkelbach, archt., 162 Main St., New Britain, building 2 story, 65 x 300 ft., fireproof auto sales and service building, rein.-con. flooring, concrete foundation, on Washington St., for A. C. Hine Co., 314 Pearl St. About $80,000. Noted May 15.

N. Y., Greenburg—School—Until June 23, by Tooker & Marsh, archts., 101 Park Ave., New York City, building 2 story brick and steel, brick foundation, here, for Bd. Educ. About $85,000. Noted May 1.

N. Y., New York—Dormitory, etc.—Until June 23, by B. S. Coler, comr. pub. charities, Municipal Bldg., furnishing all labor and material for erection and completion of Cottage Dormitory No. 8, and No. 9, High Grade Female Dormitory No. 23, Staff House No. 37 and Infirmary No. 50, Randall's Island. Former contract abandoned.

Ga., Milledgeville—Home—Until July 1, by Bd. Trustees Georgia State Sanitorium, building 3 story brick home for nurses. About $150,000. A. T. E. Brown, Forsyth Bldg., Atlanta, archt. Noted Apr. 24.

O., Akron—Home—Until July 1, by Bldg. Comn. of Summit Co. Ohio Children's Home at office of Bd. Co. Comrs., Court House, building two 2 story, 50 x 80 ft., rein.-con. and brick, concrete foundation, on South Arlington St. About $100,000. Harpster & Bliss, 234 Central Savings & Trust Bldg., archts.

Buildings (Continued)

O., Euclid—School—Bd. Educ. and Knox & Elliot, archts., 1248 Rockefeller Bldg., Cleveland, receiving bids building 2 story, 75 x 100 ft., concrete, steel and brick. About $100,000.

O., Pittsburg—School—Until June 29, by E. S. Mountstephen, archt., 803 Union Bank Bldg., Dayton, building 3 story, 80 x 140 ft., rein.-con. and brick, concrete foundation, for Bd. Educ. About $100,000. Noted Mar. 6.

O., Springfield—Theatre—Until June 24, by W. F. Miller, archt., Kelly Bldg., constructing 3 story, fireproof, rein.-con. flooring, concrete foundation, on Limestone St., for G. Sun, Main and Limestone Sts. About $200,000. Noted June 12.

O., Toledo—School—Until June 30, by Bd. Educ., building 2 story, 81 x 254 ft. rein.-con., steel and brick, concrete foundation, on Navarre Ave. and Kingston St. About $250,000. E. M. Gee, Linwood St. and Southard Ave., archt. Noted Apr. 24.

Mich., Detroit—School—Until June 26, by C. A. Gadd, business mgr., 50 Bway., building 2 story, 83 x 204 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation at Hawthorne and Caniff Aves.; also building 2 story, 84 x 169 ft., rein.-con. brick and steel, rein.-con. flooring, concrete foundation on Alger Ave., to be known as Moore School. Malcolmson Higginbotham, 404 Moffat Bldg., archts.

Mich., Ecorse—School—Until June 30, by School Dist. No. 12, building 3 story, rein.-con. and brick. About $230,000. H. J. Keough, 1115-21 Union Trust Bldg., Detroit, engr.

Mich., Mt. Pleasant—School—Until June 27, by Bd. Educ., building 2 story school. C. S. Larzolere, pres. S. D. Bitterworth, 432 Tussing Bldg., Lansing, archt.

Ill., Sterling—High School—Until July 2, by D. L. Miller, clk. bd. educ. at office of C. E. Sheldon, atty., Sterling, building addition to Sterling Twp. High School. Cost between $50,000 and $60,000; advertised in this issue.

Wis., Wauwatosa—School—Until July 1, by L. G. Wheeler, chn. school bd., 204 Grand Ave., Milwaukee, building 2 story, 45 x 186 ft. brick and mill construction, rein.-con. flooring, concrete foundation, on Wauwatosa Ave. About $75,000. Herbst & Kuenzli, Caswell Blk., Milwauke, archts. Noted Feb. 20.

Minn., Blooming Prairie—High School—Until July 10, by School Bd., building 2 story, 80 x 120 ft., with wing 50 x 64 ft., rein.-con., brick and terra cotta. About $150,000. Jacobson & Jacobson, Owatonna, archts.

Minn., Duluth—School—Until June 23, by Bd. Educ., building 1 story, 64 x 250 ft., with wing, rein.-con., brick and steel, rein.-con. flooring, brick foundation, on Park Point. About $80,000. Croft & Boerner, 833 Palace Bldg., Minneapolis., engrs. Noted Apr. 24.

Minn., Duluth—Grade School—Until July 2, by Bd. Educ., building 2 story, 80 x 120 ft., rein.-con., brick and steel, rein.-con. flooring, brick foundation, on Franklin St. About $70,000. Croft & Boerner, 833 Palace Bldg., Minneapolis, archts. and engrs. Noted Apr. 24.

Minn., Duluth—School—Until July 2, by Bd. Educ. building 2 story, 64 x 180 ft., rein.-con. and brick addition to Riverside School, rein.-con. flooring, concrete foundation. About $60,000. Revised plans have been prepared. Croft & Boerner, 833 Palace Bldg., Minneapolis., archts. and engrs. Noted May 1.

Minn., Minneapolis—Home—Until June 24, by State Bd. Control, Capital, St. Paul, for improvements at Soldiers' Home, here. About $75,000. C. L. Pillsbury Co., Metropolitan Life Bldg., engrs.

Minn., Minneapolis—Trading—Chamber Commerce receiving bids for 50 x 75 ft., rein.-con. and brick addition, rein.-con. flooring, brick foundation on 3rd St. and 4th Ave., S. About $52,000. Bertrand & Chamberlin, 616 Northwestern Natl. Bank Bldg., archts. and engrs.

Minn., Moorhead—School—Until June 26, by Bd. Educ., building 2 story, rein.-con. and brick, brick foundation, in Independent School Dist. No. 2. About $50,000. J. H. Hess, Moorhead Natl. Bank Bldg., archt. Noted Apr. 17.

Minn., Mountain Lake—High School—Until July 5, by J. H. Dickman, clk. bd. educ., building 1 story, 52 x 126 ft., with 2 wings. About $75,000. Jacobson & Jacobson, Owatonna, archts.

Minn., St. Hilaire—School—Until June 30, by C. Swanson, clk. bd. educ., building 2 story, 57 x 90 ft., rein.-con., brick and steel, rein.-con. flooring, brick foundation. About $50,000. Sund & Dunham, 512 Essex Bldg., Minneapolis, archts. and engrs. Noted June 5.

Minn., Virginia—Court House—Until Aug. 1, by Bd. Comrs. St. Louis Co., building 2 story, 60 x 100 ft., rein.-con., brick and terra cotta. About $175,000. Croft & Boerner, 833 Palace Bldg., Minneapolis, archts. Noted Apr. 24.

Neb., Omaha—Hotel—Until July 1, by J. & A. McDonald, archts., 908 Omaha Natl. Bank Bldg., building 15 story, 66 x 66 ft., steel, concrete, brick and tile, on 16th and Howard Sts., for J. & L. Hill, Blackstone Hotel. About $450,000. Above bids for general contract, steel contract awarded.

Ore., Marshfield—Armory—Until June 25, by A. A. Hall, 640 Morgan Bldg., Portland, building 2 story, 105 x 120 ft. brick, concrete foundation, here. About $50,000. Clausen & Claussen, Macleay Bldg., Portland, archts. Noted June 5.

Ont., Simcoe—Schools—Until July 1, by F. E. Curtis, secy. school bd., building Simcoe North School, 2 story brick, and addition to Simcoe South School. About $80,000. A. Chapman, Harbor Bldg., Toronto, archt. Noted May 1.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—Office—Old State Co. let contract building 11 story, 72 x 73 ft., concrete and steel, rein.-con. flooring, concrete foundation, on Washington St., to F. T. Ley Co., 185 Devonshire St. About $1,500,000.

★**Conn., New Britain**—Housing—Stanley Wks., Grove Hill, let contract building twelve 1 and 2 story, concrete and timber workmen's houses, brick and concrete foundation, on Burritt St., to Aberthaw Constr. Co., 27 School St., Boston. About $50,000.

★**N. Y., Buffalo** — Hospital — Columbus Hospital, 298 Niagara St., let contract altering and building 2 story, 30 x 70 ft., non-fireproof addition, to Bellance & Sorge, Morgan Bldg. About $50,000.

★**N. Y., New York**—Hospital—L. Abramson, archt., 220 5th Ave., let contract to Magova Constr. Co., 103 Park Ave., building 4 story brick and steel addition, brick foundation, on Fulton Ave. and East 169th St., for Bronx Hospital. About $50,000. Noted Jan. 30.

★**N. Y., New York**—Hospital—New York Infirmary for Women & Children, 321 East 15th St., let contract altering 7 story brick and steel, to M. Eidlitz & Son, 20 East 42nd St. About $72,000. Noted June 12.

★**N. J., New Brunswick**—High School—Bd. Educ. let contract building junior high school, to G. T. Kelly Co., 20 John St., Yonkers, N. Y., $328,888.

★**Pa., Phila.**—Bank—South Phila. State Bank, 923 South 11th St., let contract building 2 story, 31 x 89 ft., brick and stone, on 11th and Montrose Sts., to F. Lucci, 1603 Ellsworth St. About $50,000.

★**Md., Baltimore**—Church—Seventh Baptist congregation let contract building 50 x 100 ft., rein.-con., on North Ave. and St. Paul St., to J. E. Marshall & Son., 131 Mercer St. and W. F. Chew, 212 Clay St. About $75,000. Noted Feb. 13.

★**Md., Baltimore**—Office—Temple Bldg. Co., c/o J. Johnson, agt., 2 East Lexington St., let contract altering rein.-con. building on Charles and Clay Sts., to J. H. Miller, Inc., Miller Bldg. About $65,000.

★**Md., Baltimore**—School—St. Mary's Industrial School, Wilkens Ave., let contract building two, 3 story, 63 x 131 ft., rein.-con. and brick dormitories and class room, concrete foundation, on Wilkens Ave., to F. D. Keating, 2121 West Baltimore St. About $300,000. Noted May 29.

Va., Richmond — Office — See "Industrials."

★**W. Va., Montgomery**—High School—Bd. Educ. let contract building 2 story, 60 x 120 ft. brick, to Charleston Concrete Co. Str. Co., Charleston. About $90,000. Noted May 1.

★**La., New Orleans**—School—Clerk let contract building 3 story, 300 x 200 ft., fireproof, to J. O. Chisholm & Co., 407 Hennen Bldg. About $638,500. Noted May 22.

★**O., Akron**—Loft and Store—L. D. Schroy Co., 69 East Mill St., let contract building 5 story, 20 x 110 ft., rein.-con., rein.-con. flooring, concrete foundation, to Clemmer & Johnson Constr. Co., 406 Metropolitan Bldg. About $50,000.

★**O., Cleveland**—Commercial—Cowell & Hubbard Co., East 6th St. and Euclid Ave., let contract building 8 story, 80 x 200 ft., rein.-con., steel and brick, on East 13th St. and Euclid Ave., to J. Gill & Sons, Citizens Bldg. About $300,000. Noted Feb. 27.

O., Cleveland—Office — See "Industrial Works."

★**O., Cleveland**—Office—Reserve Square Realty Co., c/o R. L. Quisser, Schofield Bldg., let contract building 6 story, 100 x 300 ft., rein.-con., steel and brick, on East 11th St. and Chestnut Ave., to Natl. Concrete Fireproofing Co., Citizens Bldg. About $150,000.

O., Cleveland—Office—See "Industrials."

★**O., Cleveland**—Sales and Service—Forest City Motor Co., 6504 Euclid Ave., let contract building 2 story, 55 x 300 ft., rein.-con., steel and brick, at 6510 Euclid Ave., to E. A. Carson Co., 6408 Euclid Ave. About $70,000. Noted May 15.

★**O., Cleveland**—Theatre—Amer. Amusement Co. let contract building 2 story, 76 x 173 ft., concrete, steel and brick, on Fulton Rd. and Bush Ave., to A. Thomas, 2431 East 83rd St. About $75,000. Noted May 1.

★**O., Cleveland**—Theatre and Stores—Greenwald & Bernstein, 641 Society for Savings Bldg., let contract building 2 story, 66 x 156 ft., rein.-con., steel and brick, rein.-con. flooring and concrete foundation, at 1789 West 25th St., to Rohner Constr. Co., 13303 Darley Ave. About $75,000. Noted Mar. 20.

★**O., Cleveland**—Theatre and Store—Normay Theatre Co., West 50th St. and Storer Ave., let contract building 1 story, 81 x 137 ft., rein.-con., steel and brick, at 5302 Storer Ave., to H. E. Klefmann, 4319 Woodbridge Ave. About $50,000. Noted May 15.

★**Mich., Detroit**—Theatre, Stores, Hall, Offices, etc.—Oakman Blvd. Theatre Co., c/o C. H. Crane and E. G. Keihler, 2325 Dime Bank Bldg., let contract building 2 story, rein.-con., brick and steel, to F. Farrington, 201 Scherer Bldg. About $300,000. Noted May 15.

★**Ill., Chicago**—Sales—F. P. Gerhardt, archt., 64 West Randolph St., let contract to A. Zellweger, 624 Briar Ave., building 1 and 2 story, 60 x 160 ft., mill construction auto sales room, concrete foundation, on Washington Ave. and Kilpatrick St., for L. F. Sullivan c/o archt. About $60,000. Noted May 22.

★**Ill., Woodriver**—High School—J. W. Kennedy, archt., Cahokia Bldg., East St. Louis, let contract, to J. R. Geddney Constr. Co., East St. Louis, building 2 story, 90 x 150 ft. brick and rein.-con., rein.-con. flooring, concrete foundation, between here and East Alton, for High School Bd. About $91,600. Noted Feb. 27.

★**Wis., Superior**—School—Bd. Educ. let contract building 2 story, 80 x 200 ft., with 1 story 56 x 70 ft. wing, rein.-con. and brick, rein.-con. flooring, brick foundation, to Hill & Dauplaise, Superior, $174,500. Noted June 5.

★**Wis., West Allis**—High School and Power House—Bd. Educ. let contract building 2 story, rein.-con. and brick, rein.-con. flooring, concrete foundation, on National Ave., to Kroening Constr. Co., Majestic Bldg., Milwaukee. About $268,000. Noted Dec. 26.

★**Minn., Hibbing**—Hospital—Oliver Mining Co., Wolvin Bldg., Duluth, let contract building 3 story, 45 x 148 ft., rein.-con. brick and steel, rein.-con. flooring, concrete foundation, on 4th Ave., to Krahl Constr. Co., 350 North Clark St., Chicago, Ill. About $275,000. Noted May 22.

Buildings (continued)

★**Minn., Minneapolis**—Hotel—Curtis Court Hotel Co., 10th St. and 3rd Ave. S., let contract building 12 story, 52 x 165 ft., rein.-con., brick and stone, to J. L. Robinson Co., 511 South 7th St., $750,000. Noted May 29.

★**Minn., Wabasha**—Hospital—St. Elizabeth Hospital let contract building 3 story, rein.-con. and brick, rein.-con. flooring, concrete foundation, to L. Neitge, Mankato. About $85,000.

★**Kan., Anthony**—School—Bd. Educ. let contract building 2 story, 72 x 119 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, to J. Wenzel Constr. Co., Wichita. About $72,000. Noted June 5.

★**Kan., Beloit**—High School—Bd. Educ. let contract building 3 story, 100 x 137 ft., rein.-con. and brick, rein.-con. flooring, brick foundation, to M. E. Brady, Beloit. $109,465. Noted May 22.

★**Kan., Independence**—Office—Natl. Supply Co. let contract building 2 story, 50 x 100 ft., brick and fireproof, rein.-con. flooring, concrete foundation, on 8th and Myrtle Sts., to E. S. Winn Constr. Co., 105 Ry. Exch. Bldg., Kansas City, Mo. About $60,000.

★**Kan., Peabody**—Bank—Peabody State Bank let contract building 2 story, 33 x 90 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, to Scott Bros., Burns. About $75,000.

★**Kan., Wichita**—School—Bd. Educ. let contract building 3 story, 91 x 185 ft., concrete and brick, rein.-con. flooring, concrete foundation, on 3rd St., to E. C. Hamler, Mulvane, $129,688. Noted May 29.

★**Neb., Lincoln**—Hotel—Nebraska Hotel Co. let contract building 7 story 100 x 142 ft. rein.-con. and brick, on 10th and "P" Sts., to Nebraska Bldg. & Investment Co., 130 South 13th St. About $250,000.

★**Neb., Omaha**—Hotel—J. and L. Hill, Blackstone Hotel, let steel contract building 15 story, 66 x 66 ft., on 16th and Howard Sts., to Omaha Structural Steel Wks., 48th and Leavenworth Sts.

★**Neb., York**—Hospital, etc.—Lutheran Hospital let general contract building 2 story, 37 x 90 ft. rein.-con. and brick hospital and boiler house, rein.-con. flooring, rock foundation, to A. J. Olson, 520 Reliance Bldg., Kansas City, Mo., $46,840; heating and plumbing, to W. J. Chambers, $20,750; wiring, to Pub. Serv. Co., $25,590. Noted Apr. 24.

★**N. D., Cathay**—Grade and High Schools—Bd. Educ. let contract building 2 story, brick, to L. W. Holder, Forman. About $50,000. Noted May 1.

★**Mo., Ozark**—Court House—Christian Co. let contract building 3 story, rien.-con., brick and terra cotta, to H. J. Hanson Constr. Co., Sarcoxie, Mo., $77,420. Noted May 8.

★**Mo., St. Joseph**—Hotel—J. Geiger, 25th St. and Frederick Ave., let contract building 5 story, 60 x 125 ft., fireproof addition, rein.-con. flooring, concrete foundation, on 6th and Francis Sts., to E. H. Lawhon Constr. Co., 905 Edmond St. About $50,000.

★**Mo., St. Louis**—Theatre—C. Hickman, 2407 North Bway., let contract building 2 story, 76 x 137 ft., rein.-con., steel and brick, rein.-con. flooring, rock foundation, at 2138 East Grand St., to A. D. Gates Constr. Co., Chemical Bldg. About $50,000.

★**Wash., Seattle**—Hospital—J. Wilkins, Cobb Bldg., let contract building 3 story, 34 x 60 x 70 ft., brick, concrete foundation, on 16th and John Sts., to P. T. Bratt, 4902 Phinney Ave. About $55,000. Noted Jan. 2.

Ore., Corvallis—Laboratory—State Agricultural College received bids June 2, building 2 story, 56 x 220 ft. brick, concrete and mill construction engineers' laboratory, on college campus, from Snook & Travers, Portland, $69,800; Hoover & McNeil, Albany, $69,987. Noted June 5.

★**Ont., Guelph**—Dormitory—Dept. Pub. Wks., Toronto, let contract building 3 story, brick, dormitory, for Ontario Agricultural College, College St., here, to P. H. Secord & Co., 133 Nelson St., Brantford. Noted May 8.

★**Ont., Ottawa**—School—School Bd. let contract building addition to school, to J. D. Sanderson, 535 McLeod St. About $120,000. Noted Apr. 10.

★**Ont., Toronto**—Theatre—J. and J. Allen, Richmond St., let contract building theatre, to N. McLeod, Kent Bldg. About $100,000. Noted Oct. 17.

Federal Government Work

PROPOSED WORK

N. Y., Montauk—Sewers—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install additional sewers, here; Spec. 3955. About $6000.

N. Y., New York—Garage—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here; Spec. 3962. About $40,000.

N. Y., Rockaway—Electric Light and Power Distributing System—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to install at Naval Air Sta., here; Spec. 3958. About $60,000.

Pa., Bellevue—Pier and Fire Protection System—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build and install, here; Spec. 3972. About $55,000.

Pa., Ft. Mifflin—Repairs to Roads—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to repair roads at Navy Yard, here; Spec. 3971. About $2500.

Pa., Phila.—Paving and Resurfacing—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to pave and resurface roads and streets, here; Spec. 3953. About $23,500.

Md., Indianhead—Housing Development—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build houses here; Spec. 3967. About $100,000.

Md., Indianhead—Toilet Buildings—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build here; Spec. 3968. About $80,000.

Va., Yorktown—Roads—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build concrete roads, here; Spec. 3970 About $150,000.

Fla., Milton—Bridge—J. T. Buller, U. S. Government Engr., will soon receive bids building 5200 ft. steel bridge over Yellow River at Faulks Ferry on road connecting Milton with Camp Walton.

Ill., Monmouth—Boilers—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received no bids installing in post office, here. Noted May 29.

Mont., Bozeman—Road Work—Bureau Pub. Rds., Missoula, Mont., soon receives bids grading and draining 7 mi. West Gallatin Rd. (1st Sect.), and 3 mi. West Gallatin-Squaw Creek Rd., 16 ft. wide, Gallatin Co. About $20,00 each. C. H. Purcell, Post Office Bldg., Portland, Ore., dist. engr. Noted Mar. 20.

Oregon—Road Work—Bureau of Forestry, Portland, plans to build 35 mi. trail from Crater Lake Park boundary line along Cascades Summit to Lake of the Woods, also 80 mi. trails through forests to water sheds and grazing lands. About $25,000. M. L. Merritt, forest examiner.

Cal., Yreka—Road Work—U. S. Dist. Engr. Dept. Good Rds., plans to build 26 mi. roads in Klamath River Dist., Siskiyou Co. Work involves grading, clearing and grubbing, earth and rock excav., corrugated iron pipe culverts, concrete and rubble masonry work, timber bridges and trestles, cribbing, etc. About $500,000. B. J. Finch, Mills Bldg., San Francisco, engr.

BIDS DESIRED

Mass., Boston.—Addition to Shipfitters' Shop—Until June 25 (change of date), by Bureau Yards & Docks, Navy Dept., Wash., D. C., building addition to shipfitters' shop at structural shop, here; Spec. 3920. About $315,000; $10 deposit required for plans and spec. Noted June 5.

Mass., Boston—Cranes—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing electric traveling cranes in additions to structural shop, here; Spec. 3946. About $65,000; $10 deposit required for plans and spec.

R. I., Coasters Harbor—Extending and Altering Fire Alarm System—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extending and altering fire alarm system, here; Spec. 3951; $10 deposit required for plans and spec.

R. I., Coddington Point—Extending and Altering Fire Alarm System—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extending and altering fire alarm system, here; Spec. 3951; $10 deposit required for plans and spec.

R. I., Newport—Extending and Altering Fire Alarm System—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., extending and altering fire alarm system, here; Spec. 3951; $10 deposit required for plans and spec.

N. Y., Montauk—Power House—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building, here; Spec. 3889. About $4000; $10 deposit required for plans and spec. Noted May 22.

N. Y., New York—Crane Runaway—Until June 25 (change of date), by Bureau Yards & Docks, Navy Dept., Wash., D. C., building crane runaway for Shipbuilding Slip No. 1 and for bulkhead handling and storage, here; Spec. 3678; $10 deposit required for plans and spec. Noted June 5.

N. Y., South Brooklyn—Storage Building—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing compass storage building on roof of Building S-2; Spec. 3948. About $25,000; $10 deposit required for plans and spec.

N. Y., Stapleton—Gas Mains—Until July 7, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., furnishing and laying gas mains at U. S. Marine Hospital, here; advertised in this issue.

N. J., Cape May—Cell House—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at Wissahickon Barracks, here; Spec. 3943. About $4000; $10 deposit required for plans and spec. Noted June 5.

N. J., Cape May—Flood Lighting System—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing in Wissahickon Barracks, here; Spec. 3963. About $8250; $10 deposit required for plans and spec.

Pa., Ft. Mifflin—Cleaning, Repairing and Resurfacing Roads—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., cleaning and repairing existing macadam roads and resurfacing same with bituminous dressing; Spec. 3971. About $2500; $10 deposit required for plans and spec.

Pa., Ft. Mifflin—Tank and Tower—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building elevated steel water tank and tower for Delaware River water; Spec. 3919. About $14,000; $10 deposit required for plans and spec. Noted June 5

Pa., Phila.—Fire Escape—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing fire escape for Building No. 5, here; Spec. 3932. About $2500; $10 deposit required for plans and spec. Noted June 5.

Pa., Phila.—Pipe System—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing combination wet and dry pipe system of automatic sprinkler in Building No. 87, here; Spec. 3961. About $7500; $10 deposit required for plans and spec.

Pa., Phila.—Sprinkler System—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing here; Spec. 3954. About $20,000; $10 deposit required for plans and spec.

Pa., Phila.—Wet Pipe System—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing wet pipe system for automatic sprinkler in Building No. 7, here; Spec. 3957. About $7500; $10 deposit required for plans and spec.

Md., Annapolis—Painting—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., painting radio towers, here; Spec. 3925. About $12,000; $10 deposit required for plans and spec. Noted June 5.

Md., Baltimore—Buildings—See Wash., D. C.

Md., Indianhead—Piping and Electric System—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing piping and electric system for accumulator and press house, here; Spec. 3969. About $18,000; $10 deposit required for plans and spec.

Federal Government Work (Continued)

Md., Indianhead—Power Plant — Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building extension to power plant; Spec. 3924. About $210,000; $30 deposit required for plans and spec. Noted June 5.

D. C., Anacostia—Buildings, Hangars, Roads and Distributing Systems—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building and installing here; Spec. 3905. About $475,000; $50 deposit required for plans and spec. Noted May 22.

D. C., Wash.—Buildings—Until June 28, by Constr. Div., War Dept., Wash., constructing steel buildings at Camp Normoyle, San Antonio, Tex.; Camp Holabird, Baltimore, Md., and Camp Jesup, Fort McPherson, Ga.; advertised in this issue.

D. C., Wash.—Pump House—Until June 20, at office of Secy. Bd. Comrs., 511 Dist. Bldg., constructing small pump house at Municipal Fish Market on Water St. between 11th and 12th St.

Va., Hampton Roads—Fire Alarm System—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing, here; Spec. 3960. About $6000; $10 deposit required for plans and spec.

Va., Hampton Roads—Railroad Extension—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building here; Spec. 3947. About $25,000; $10 deposit required for plans and spec.

Va., Yorktown—Buildings — Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., constructing 10 buildings, here; Spec. 3952; $10 deposit for plans and spec.

S. C., Paris Island—Water Supply System—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building fresh water supply system, here; Spec. 3964. About $106,000; $10 deposit required for plans and spec.

Ga., Ft. McPherson—See Wash., D. C.

Fla., Key West—Oil Burning Equipment—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., furnishing oil burning equipment for boilers; Spec. 3847. About $6500; $10 deposit required for plans and spec. Noted June 12.

Fla., Key West—Power House, Electric Generator Equipment and Fire Protection System—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building power house and installing electric generator equipment and fire protection system, here; Spec. 3956. About $105,000; $10 deposit required for plans and spec.

Fla., Key West—Sewer—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building intercepting sewer at Naval Air Sta.; Spec. 3959. About $4000; $10 deposit required for plans and spec.

Fla., Pensacola—War Heads and Detonator Storehouses—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building at Naval Air Sta., here; Spec. 3812. About $4700; $10 deposit required for plans and spec. Noted Apr. 19.

Ill., Great Lakes—Road Work—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., improving roads, here; Spec. 3950. About $35,000; $10 deposit required for plans and spec.

Wis., Milwaukee—Skeleton Steel Towers—Until June 23, by Supt. Lighthouses, 424 Federal Bldg., furnishing and erecting four 31 ft. skeleton steel towers, each with attached steel tank house; advertised in this issue.

Ia., Vinton—Post Office—Until July 10, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., furnishing material and building post office, here. Separate bids will be received on material and labor.

Tex., San Antonio — Buildings— See Wash., D. C.

Wash., Puget Sound—Grading, Excavating and Filling—Until July 2, by Bureau Yards & Docks, Navy Dept., Wash., D. C., grading, excavating and filling, here; Spec. 3256. About $380,000; $10 deposit required on plans and spec. Noted Aug. 1.

Cal., Los Angeles—Silt Diversion Works—Until July 18, by U. S. Engr. Office, 725 Central Bldg., building near Los Angeles and Long Beach Harbors; advertised in this issue.

Cal., Mare Island—Cranes—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., installing 3 electric traveling cranes in structural shop, here; Spec. 3903. About $275,000; $10 deposit required for plans and spec. Noted May 22.

Cal., San Francisco—Radio Towers—Until June 25, by Bureau Yards & Docks, Navy Dept., Wash., D. C., erecting two 450 ft. steel radio towers, here; Spec. 3965. About $85,000; $10 deposit required for plans and spec.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. H., Portsmouth — Laundry—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 11, building at Marine Barracks, here, from Weiss Constr. Co., 40 Court St., Boston, Mass., $12,600, (60 days); King Lumber Co., Charlottesville, Va., $12,943, (60 days). Noted May 22.

★**Mass., Chatham** — Roads — Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building roads, to Coleman Bros., 1 Marginal St., Chelsea, $7270 (45 days). Noted June 12.

Mass., Chelsea—Heating Plant and Distributing System — Bureau Yards and Docks, Navy Dept., Wash., D. C., received bids extending heating plant and distributing system, here, from Power Efficiency Corp., White Bldg., Buffalo, N. Y., (1) **$54,886, (75 days)**; Lynch & Woodward, 287 Atlantic Ave., Boston, $57,432, (70 days); Lord Constr. Co., 112 South Water St., Boston, $59,927, (65 days).

Mass., Hingham — Dredging — Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 11, dredging at Naval Ammunition Depot, here, (1) work complete, from Boston Dredging Co., 172 Conder St., (1) $.89, (100 days), (2) $20, (3) $40; Bay State Dredging & Contg. Co., 62 Conder St., (1) $.83, (98 days), (2) $20, (3) $38. Both contractors of East Boston. Noted May 22.

Mass., Hingham—Fire Protection System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 11, installing here, (1) work complete, from H. S. Roberts & Co., 1123 Bway., New York City, (1) $116,317, (150 days), (2) $86[illegible], (3) $30,000, (4) $200, (5) $18.50; [illegible] Pizzimento, 424 West Holly Ave., Pitt[illegible], N. J., (1) $120,150 (time as specified), [illegible] $92,450, (4) $100, (5) $25, (6) $1.90 to $4.00; H. F. Lodge, 1633 Ransted St., Phila., (1) $129,398 (120 days), (2) $102,[illegible] (120 days), (3) $31,900, (4) add $[illegible], (5) $22.50, (6) $2.09 to $4.49. Noted May 22.

★**R. I., Newport** — Boathouse—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building here, to Darling & Slade Constr. Co., 52 Bridge St., $82,500 (150 days). Noted June 12.

★**Conn., New London**—Dredging—U. S. Engr. Office, New London, let contract for maintenance dredging in New Haven Harbor, to J. S. Packard Dredging Co., Turks Head Bldg., Providence, R. I., $39,435. Noted May 1.

N. Y., Brooklyn—Building, etc.—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 11, constructing building "F" and altering stairway in main hospital at U. S. Naval Hospital Reservation, here, (1) work complete from

Nugent Constr. Corp., 505 5th Ave., New York City, (1) $242,422 (120 days), (2) $409,904 (150 days), (3) $8000 (45 days).

White Fireproofing Constr. Co., 95 Madison Ave., New York City (1) $261,945 (120 days), (1a) deduct $2240; (2) $416,549 (150 days), (3) $8450, (3a) deduct $50 (45 days).

Warren Moore Co., Colonial Trust Bldg., Phila., (1) $283,653 (time as specified), (1a) $1090, (2) $411,439 (time as specified), (3) $9500, (3a) add $70. Noted June 5.

★**N. Y., Brooklyn**—Fence—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building fence at Marginal Parkway, here, to Wright Wire Co., 69 Hammond St., Worcester, Mass., $1195, (30 days). Noted June 5.

★**N. Y., Brooklyn**—Sprinkler System—Pub. Wks. Officer, Navy Yard, Brooklyn, let contract installing sprinkler system, to C. Meads & Co., 39 Park Row, $42,210 (time as specified). Noted Apr. 10.

MILL CREEK IMPROVEMENT—ERIE, PA.

Bids were received by City Council, May 20, (lowest 3) for completion of Mill Creek Flood Control, Sect. No. 3, from (A) Scott Bros., Arlington Blk., Rome, N. Y. (awarded contract); (B) Peckham Constr. Co., Niagara Life Bldg., Buffalo, N. Y.; (C) Foundation Co., 233 Bway., New York City; Sect. No. 4, (A) Scott Bros. (awarded contract); (B) Peckham Constr. Co.; (C) A. L. Anderson & Bros., McCance Bldg., Pittsburgh; Sect. No. 5, (A) Erie Concrete & Steel Co., Erie (awarded contract); (B) Schaaf Co., Mutual Life Bldg., Buffalo, N. Y.; (C) Lupfer & Remick, Ellicott Sq., Buffalo, N. Y. The unit bids were as follows:

SECT. 3

	A	B	C
Taking care of water (lump sum)	$10,360.00	$5,000.00	$8,000.00
30,000 cu.yd. excavation class "A" earth	1.05	1.30	1.20
2,700 cu.yd. excavation class "B" earth	1.95	2.00	3.50
33,000 cu.yd. excavation class "D" rock	2.25	3.00	2.00
2,500 cu.yd. excavation class "E" rock	3.25	5.00	6.00
550 cu.yd. excavation class "F" earth	1.95	2.25	3.25
250 cu.yd. excavation class "G" rock	3.25	6.50	6.50
850 cu.yd. excavation class "H" concrete masonry	3.90	4.50	4.00
1,050 cu.yd. excavation class "J" stone and brick masonry	2.90	2.15	4.00
1,800 sq.yd. excavation class "K" pavements	1.30	.70	1.50
17,200 cu.yd. concrete class "A" tube	9.05	10.00	11.00
200 cu.yd. concrete class "B" ribs, walls, etc.	19.50	12.25	13.50
300 cu.yd. concrete class "E" rough	7.15	5.85	13.50
105 cu.yd. concrete class "F" manholes, etc.	32.40	11.00	18.00
306 tons reinforcing steel	86.75	86.00	87.00
7 tons structural steel	111.50	190.00	175.00
18 tons iron castings	142.50	135.00	127.00
50 tons cast iron pipe	99.75	90.00	74.00
150 ft. vitrified sewer pipe, 6 in.	.78	.30	.60
110 ft. vitrified sewer pipe, 9 in.	1.10	.50	1.00
110 ft. vitrified sewer pipe, 12 in.	1.30	.60	1.35
130 ft. vitrified sewer pipe, 15 in.	1.65	1.00	1.80
50 ft. vitrified sewer pipe, 18 in.	2.05	1.40	2.50
75 ft. vitrified sewer pipe, 24 in.	3.40	2.30	4.50
20 ft. vitrified sewer pipe, 36 in.	6.50	5.95	10.25
30 cu.yd. brick masonry	23.30	22.00	24.00
Underpinning structure No. 1 (lump sum)	4,000.00	3,000.00	5,000.00
Underpinning structure No. 2 (lump sum)	2,600.00	1,500.00	5,000.00
Underpinning structure No. 3 (lump sum)	3,100.00	3,000.00	6,000.00
Underpinning structure No. 4 (lump sum)	5,960.00	3,000.00	10,000.00
Underpinning structure No. 5 (lump sum)	325.00	1,000.00	1,000.00
Underpinning structure No. 6 (lump sum)	5,960.00	5,000.00	22,000.00
450 ft. intercepting sewer, 36 in.	7.10	4.15	7.75
4,050 ft. tile in invert, 8 in.	.65	.60	.70
8 flap valves, 12 in. and less	51.75	55.00	60.00
6 flap valves, 15 in. to 24 in.	97.00	115.00	150.00
50 lin.ft. supporting water pipes, etc.	1.95	3.25	2.50
15 tons steel for taking care of traffic	130.00	100.00	175.00
20M. timber for taking care of traffic	97.00	90.00	100.00
26,500 bbl. Portland cement	2.90	2.60	2.87
Extended totals	$451,459	$478,649	$519,313

SECT. 4	A	B	C
Taking care of water (lump sum)	$16,000.00	$5,000.00	$20,788.00
29,000 cu.yd. excavation class "A" earth	1.68	1.80	1.15
8,400 cu.yd. excavation class "B" earth	2.58	2.15	3.00
39,000 cu.yd. excavation class "D" rock	2.86	3.80	2.50
9,600 cu.yd. excavation class "E" rock	3.90	5.70	5.14
1,500 cu.yd. excavation class "F" earth	2.58	2.40	7.06
1,200 cu.yd. excavation class "G" rock	3.90	7.00	5.93
1,200 cu.yd. excavation class "H" concrete masonry	4.85	4.80	6.97
1,400 cu.yd. excavation class "J" stone and brick masonry	3.90	2.25	5.85
2,500 sq.yd. excavation class "K" pavements	1.55	.75	1.27
17,600 cu.yd. concrete "A" tube	7.75	9.70	9.00
500 cu.yd. concrete "B" ribs, walls, etc	23.00	13.00	27.00
500 cu.yd. concrete class "E" rough	7.00	6.20	8.17
150 cu.yd. concrete class "F" manholes, etc	32.00	11.70	23.90
105 tons reinforcing steel, furnishing and placing	87.00	92.00	145.34
160 tons reinforcing steel, placing only	36.00	42.00	53.24
50 tons structural steel	112.00	204.00	175.00
17 tons iron castings	142.00	144.00	326.00
60 tons cast iron pipe	100.00	97.00	164.30
50 ft. vitrified sewer pipe, 6 in	.78	.30	.38
80 ft. vitrified sewer pipe, 9 in	1.10	.50	.66
100 ft. vitrified sewer pipe, 12 in	1.30	.60	.85
400 ft. vitrified sewer pipe, 15 in	1.65	1.10	.92
160 ft. vitrified sewer pipe, 18 in	2.05	1.50	1.74
200 ft. vitrified sewer pipe, 24 in	3.40	2.50	1.82
50 ft. vitrified sewer pipe 36 in	6.50	6.00	4.20
120 cu.yd. brick masonry	23.30	23.50	29.20
Underpinning structure No. 7 (lump sum)	3,900.00	4,800.00	6,050.00
Underpinning structure No. 8 (lump sum)	13,000.00	9,300.00	13,500.00
Underpinning structure No. 9 (lump sum)	2,300.00	2,000.00	800.00
Underpinning structure No. 10 (lump sum)	5,700.00	4,000.00	4,200.00
Underpinning structure No. 10A (lump sum)	1,900.00	350.00	800.00
Underpinning structure No. 14 (lump sum)	2,600.00	2,400.00	3,900.00
Underpinning structure No. 15 (lump sum)	7,300.00	4,800.00	7,200.00
Underpinning structure No. 15A (lump sum)	400.00	350.00	550.00
Underpinning structure No. 16 (lump sum)	500.00	350.00	1,000.00
Underpinning structure No. 16A (lump sum)	2,600.00	350.00	2,700.00
Underpinning structure No. 17 (lump sum)	6,500.00	4,400.00	5,800.00
4,100 lin.ft. tile in invert, 8 in	.65	.62	.50
12 flop valves, 12 in. and less	51.75	60.00	50.00
10 flop valves, 15 in. to 24 in	97.00	120.00	93.00
200 lin.ft. supparting water pipes, etc	1.95	3.60	7.00
15 tons steel for taking care of traffic	130.00	105.00	115.00
40M. timber for taking care of traffic	97.00	96.00	140.00
28,500 bbls. Portland cement	2.90	2.50	3.47
Extended totals	$589,058	$640,100	$653,697

SECT. 5	A	B	C
Taking care of water (lump sum)	$650.00	$1,400.00	$500.00
5,000 cu.yd. excavation, class "A" earth	.55	.87	1.50
3,500 cu.yd. excavation, Class "B" rock	2.57	2.14	2.65
500 cu.yd. excavation, class "C" rock	2.83	2.70	2.65
80 cu.yd. concrete, class "A" portal	18.60	15.84	16.05
200 cu.yd. concrete, class "B" buttressed walls	18.00	12.50	17.12
1,200 cu.yd. concrete, class "C" gravity walls	9.35	11.80	8.50
600 cu.yd. concrete, class "D" footings and floor	6.70	5.80	7.50
15 tons reinforcing steel	140.00	105.00	75.00
300 lin.ft. tile drains	1.28	.09	.24
500 sq.yd. surfacing with top soil	.51	.50	.25
200 sq.yd. rubble paving	2.57	1.70	2.57
3,000 bbl. Portland cement	2.90	3.00	3.00
Extended totals	$46,091	$47,189	$48,844

Federal Government Work (Continued)

★**N. J., Cape May**—Storage Tanks—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing gasoline tanks and fuel depot, here, to Mansfield & Savage, 135 William St., New York City, $82,986 (150 days). Noted June 12.

★**Pa., Ft. Mifflin**—Fence and Gates—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building here, to Wright Wire Co., 69 Hammond St., Worcester, Mass., (1) $14,400, (90 days); also unit prices for (2) and (3). Noted June 12.

★**Pa., Ft. Mifflin** — TNT Plant — Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract, to G. F. Pawling Co., 1432 South Penn. Sq., Philadelphia, $173,298, (210 days). Noted May 29.

★**Pa., Phila.**—Elevator Shafts — Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing elevator shafts in heavy machine shops, here, to Albro Clem Elevator Co., Erie Ave. and D St., $14,648. (165 days). Noted May 22.

★**Pa., Phila.**—Heating and Humidifying Apparatus—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing at Aircraft Storage Building "D," here, to Enterprise Steam & Hotwater Heating Co., 600 North Howard St., Baltimore, Md., $62,529 (120 days). Noted June 12.

★**Pa., Phila.**—Pavement—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building at Marine Corps Barracks, here, to E. C. Fish, 704 Real Estate Trust Bldg., $7887, (35 days). Noted May 1.

★**Md., Baltimore**—Rip Rap—Supt. Light houses, Custom House, let contract furnishing and placing rip rap stone at Craney Island Light House Sta., Elizabeth River, Va., to Raymond Concrete Pile Co., 922 Munsey Bldg., $6000. Noted May 29.

D. C., Anacostia—Earth Fill—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 11, building earth fill, here, from Scheer & Deckelbaum, 1359 H St., N. E., $1 per cu.yd (50 days); Vinson Constr. Co., 1709 2nd St., N. W., $1.34 (55 days); G. Hyman, 1116 Morse St., N. E., $1.69 (30 days). Contractors all of Wash., D. C. Noted June 6.

D. C., Wash.—Laboratory—U. S. Constr. Quartermaster, War College, received bids June 9, building 2 story photographic laboratory, here, from E. Diebitsch, 383 Madison Ave., New York City, $60,994. (100 days); Weller Constr. Co., 816 14th St., $65,893. (160 days); Piel Constr. Co., 2519 Edmonston Ave., Baltimore, Md. $68,750 (120 days). Noted June 5.

★**D. C., Wash.** — Partitions — Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building partitions in machine shop here, to A. C. Moses & Co., 916 New York Ave., $42,500 (75 days). Noted June 12.

Va., Hampton Roads—Electric Distributing System—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 11, installing at Submarine Base, here, (1) work complete, from Hetzel & Buleah, 373 4th Ave., New York City, (1) $48,813. (120 days), (2) $130, (3) $2.50, (4) $.07; Carroll Electric Co., 714 12th St., Wash., D. C., (1) $54,500, (120 days), (2) $200, (3) $2.40, (5) $.12; J. Livingston & Co., Grand Central Terminal, New York City, (1) $55,000, (90 days), (2) $225, (3) $6.10, (4) $.09. Noted May 29.

★**Va., Hampton Roads**—Electric Freight Elevator—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract installing here, to Kaestner & Hect Co., 500 South Throop St., Chicago, Ill., $112,644 (150 days). Noted June 12.

★**Va., Hampton Roads**—Revolving Platform—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building revolving platform at Air Sta., here, to Mansfield & Savage, 135 William St., New York City, $11,131, (60 days). Noted June 12.

★**Va., Hampton Roads**—Steel Water Tank and Tower—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract erecting one 150,000 gal. steel water tank and tower, to Pittsburgh Des Moines Steel Co., 959 Munsey Bldg., Wash., D. C., $11,580, (120 days). Noted June 5.

Va., Quantico—Tank—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids June 11, building 20,000 gal. elevated steel tank, at Marine Barracks, here, (1) work complete, from Mansfield & Savage, 135 William St., New York City, (2) $5539. (45 days); Pittsburgh Des Moines Steel Co., 595 Munsey Bldg., Wash., D. C., (1) $6060. (75 days), (2), $5580, (75 days). Noted June 5.

S. C., Charleston—Boilers and Superheaters—Bureau Yards & Docks, Navy Dept., Wash., D. C., received bids furnishing and installing at Navy Yard, here, from Heine Safety Boiler Co., 1120 Pennsylvania Bldg., Wash., D. C., $42,850. (140 days); Edgemoor Iron Co., Edgemoor, Del., (1) $45,217. (120 days); J. L. Skeldon Eng. Co., 242 Water St., Toledo, O., $51,922.

★**S. C., Charleston**—Roof Decks—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building gypsum roof decks, to Keystone Gypsum Fireproofing Corp., 47 West 34th St., (a) $168,500. (82 days); H. W. Johns-Manville Co., 296 Madison Ave., (b) $65,191. (90 days). Both contractors of New York City.

O., Cincinnati—Boiler—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received only bid June 18, installing boiler in post office and customhouse, here, from Heine Safety Boiler Co., 5319 Marcus St., St. Louis, Mo., $39,930 (195 days). Noted May 29.

Ill., Cairo—Boiler — J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids June 16, furnishing and installing boiler in post office, here, from La Hue Bros., Cairo, Ill., $1775 (70 days); W. Wilby, Selma, Ala., $2299 (Oct. 1); C. J. Gleason, Augusta, Ga., $2595 (Oct. 1). Noted May 29.

★**Kan., Eldorado** — Post Office — J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., let contract building here, to Henry & Hatfield Constr. Co., 102 South Meridian St., Indianapolis, Ind., $68,233. Noted June 5.

S. D., Deadwood—Bureau Pub. Rds., Denver, Colo., received bids grading 7.78 mi. Deadwood-Hot Springs Rd., Lawrence Co., from Parrish & Mattson, $36,365; Anderson Constr. Co., $38,592; both contractors of Rapid City.

★**Tex., Denton**—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., let contract building post office, here, to Cooper & Lund, Inc., 142 Market St., Newark, N. J., $63,426. Noted June 12.

Colorado—Road Work — Bureau Pub. Rds., Denver, received bids May 26, grading 12.3 mi. Monarch Pass-East Side Rd., involving 44 acres clearing and grubbing, 61,166 cu.yd. earth and 11,826 cu.yd. rock excav., from Nelson & Co., 2240 Market St., $76,017; W. O. Morrison, $111,865. Both contractors of Denver.

Colo., Denver—Boilers—J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., received bids June 9, installing 2 boilers in custom house, here, from C. J. Gleason, Augusta, Ga., $5675, (90 days); W. Wilby, Selma, Ala., $6495, (Oct. 1); J. F. Pfiefer, 1140 California St., $7150 (60 days). Noted May 29.

Ariz., Sacaton—Dam and Bridge—U. S. Indian Serv., 528 Federal Bldg., Los Angeles, Cal., received bids June 2, building rein.-con. diversion dam and bridge on Gila River, (Government furnishing cement reinforcing steel, piles, gates and machinery), from Burton & Dillon, 620 Security Bldg., Los Angeles, Cal., $300,385; Amburgen Co., 61 Bway., New York City, percentage basis or lump sum, amount to be fixed later. Noted May 1.

★**Cal., Yreka**—Road Work—B. J. Finch, dist. engr., U. S. Forest Serv., Mills Bldg., San Francisco, let contract building 15 mi. road from Happy Camp to point near Crawford Creek, Siskiyou Co., to W. A. Bechtel, 625 Market St., San Francisco. About $235,000. Noted May 15.

Miscellaneous

PROPOSED WORK

Pier—Fall River, Mass.—State Comm. on Waterways, State House, Boston, plans to build pier here. About $300,000. J. N. Poole, chn.

Oil Tank—Apponaugh, R. I.—Apponaugh Co. soon lets contract building rein.-con. oil tank, 150,000 gal. capacity. W. B. Lewis, Grosvenor Bldg., Providence, engr.

Miscellaneous (Continued)

Memorial Arch — Providence, R. I.—Brown University, College St., had plans prepared by Coolidge & Shattuck, archts., Ames Bldg., Boston, Mass., for memorial arch gateway with columns and bronze tablets on college campus. About $45,000.

River Terminal—Rahway, N. J.—City plans to build river terminal on Rahway River, to include cold storage warehouses, sheds, railways, tracks, etc. About $2,400,000. H. McL. Harding, 52 Vanderbilt Ave., New York City, engr.

Transmission Line—Yorkhaven, Pa.—Yorkhaven Water & Power Co. employed engineer to prepare plans for 23 mi. transmission line to run from here to point in Lebanon Co., near Lebanon. A. Delano, engr.

Pier, etc.—Gulfport, Fla.—Pinellas Co. plans to build 500 ft. pier, yacht basin and commercial dock.

Community Center and Playground—Dayton, O.—Barney Community Center, 536 Valley St., plans to build community center and playground. Project includes gymnasium, swimming pool, day nursery, etc. C. B. Spies, Dayton, mgr. Pond & Pond, 64 East Van Buren St., Chicago, archts.

Ice Breaker—Toledo, O.—City receives bids about July 15, building 340 ft. timber ice breaker, 46 ft. wide, on Fassett St. About $27,000. H. C. McClure, city engr.

Conduit—Detroit, Mich.—Pub. Lighting Comn. soon lets contract building conduit in John R. St. to new Pub. Library in Cass Ave., from Grand River Ave. to Willis Ave., in Chene St. from Grand River Ave. to Boulevard, in Kercheval Ave. from Mt. Elliott to Hurlbut Ave., in Junction Ave. from Michigan Ave. to Michigan Central R.R. viaduct, involving 5½ mi. 1-5 in. duct conduit, 17 manholes, 170 handholes and 350 lamp pole foundations. F. T. Bowler, 56 East Atwater St., secy.

Pipe, etc.—Detroit, Mich.—Dept. Purchases & Supplies, New Municipal Court Bldg., soon lets contract furnishing materials for high pressure pipe lines consisting of rough cast steel fittings, elbows, tees and crosses; also sewer gates and c. i. castings for Sewer Div. of Dept. Pub. Wks. requirements for year ending Jan. 31, 1920, delivered f.o.b. cars, Detroit.

Gate—Port Huron, Mich.—City soon receives bids building 13 x 25 ft. steel vertical lift gate to regulate flow of water into Black River canal, concrete abutments and shore wings, involving 14 tons steel. About $15,000. E. R. Whitmore, city engr.

Pipe Line—Woodriver, Ill.—See "Industrial Works."

Dock, etc.—Marshfield, Ore.—Port of Coos Bay Comn. plans to purchase 1200 ft. waterfront and build import and export docks and warehouses. Preliminary plans being prepared. J. Jolhemus, Marshfield, engr.

Cabs., etc.—Portland, Ore.—State Highway Comn., Portland, soon lets contract furnishing 25 cabs, 100 dump bodies and 100 hydraulic hoists. H. Nunn, Salem, state highway engr.

Pier, Shed, etc.—Portland, Ore.—Pub. Dock Comn. soon lets contract building pier shed superstructure with towers and conveyor galleries on one level section, Pier No. 1, St. Johns Municipal Terminal, east side Willamette River, North St. Johns Dist. G. B. Hegardt, c/o Dock Comn., engr.

Parks—Long Beach, Cal.—See "Buildings."

Engine—Palo Alto, Cal.—City election soon to vote on $72,000 bonds for installing Diesel engine for generating electricity for lighting plant. J. F. Byxbee, Jr., Palo Alto, engr.

Pier—Redondo Beach, Cal.—City voted $25,000 bonds to repair rein.-con. pleasure pier, here. Leeds & Barnard, Central Bldg., Los Angeles, engrs. Noted May 8.

Retaining Wall—Redwood City, Cal.—See "Sewers."

Breakwater—Devils Island, N. S.—Dept. Pub. Wks., Ottawa, soon lets contract repairing breakwater here. About $11,000. A. Lefleur, c/o Dept. Pub. Wks. engr. Noted Apr. 10 under "Canada."

Wires—London, Ont.—Utilities Bd., Hydro Offices, instructed E. V. Buchanan, engr., to prepare plans for putting high voltage wires underground in downtown section. About $45,000.

Pier—Ottawa, Ont.—Dept. Pub. Wks. soon lets contract rebuilding 200 ft. South Pier, Burlington Channel. About $24,000. Noted Apr. 10 under "Canada."

Breakwater—Port Colborne, Ont.—Dept. Pub. Wks., Ottawa, soon lets contract repairing 2 points on eastern and 2 points on western breakwaters here. A. Lafleur, c/o Dept. Pub. Wks., engr. Noted Apr. 10 under "Canada.";

Shelter—Calgary, Alta.—City Council appropriated $60,000 bonds to build children's shelter.

Dam—New Westminster, B. C.—Dept. Pub. Wks., Ottawa, soon lets contract building dam, embankment and 3 groynes at Nocomen Island, Fraser River, near here.

BIDS DESIRED

Park, etc.—Boston, Mass.—Until June 24, by Park Comn., 33 Beacon St., building park area, furnishing settees, excavating and laying concrete walks and drives in Winthrop Playground. Work involves 1200 sq.yd. concrete sidewalks and 1400 cu. yd. earth excav. About $12,000. C. E. Putnam, 33 Beacon St., engr.

Cast Iron Pipe—(Medford (Boston P. O.) Mass.—Until June 25, by Water and Sewer Comn., 52 Swan St., furnishing 6 in. c. i. water pipe. F. Charnock, city engr.

Auto Sprinkler and Oiler—Woonsocket, R. I.—Until June 23, by Aldermanic Comn., on Streets and Bridges, for combination auto sprinkler and oiler. A. H. Sylvestre, chn., F. H. Mills, city engr.; advertised in this issue.

Cast Iron Pipe—Brooklyn, N. Y.—Until June 24, by N. J. Hayes, comr. water supply, gas and electricity, Municipal Bldg., New York City, furnishing, delivering, unloading, stacking and storing cast iron pipe.

Boilers, Piping, etc.—Central Islip, N. Y.—Until July 1, by State Hospital Comn., Capitol, Albany, for installing one 600 hp. boiler, 4 stokers, new coal bunker and conveyor, coal larry and hoppers and 1 hoist for removal of ashes, for Central Islip State Hospital. About $200,000; advertised in this issue. Noted Jan. 30.

Freighthand Trailers, etc.—New York, N. Y.—Until July 15, by E. S. Walsh, supt. pub. wks., Capitol, Albany, furnishing, delivering and testing industrial freighthandling trailers and stevedore freight handling trucks for Barge Canal terminals here, Contr. 112; advertised in this issue.

Dam—Morris Plains, N. J.—Until June 26, by Dept. Architecture, 142 West State St., Trenton, building dam on river at State Hospital, here. About $15,000. F. H. Bent, 142 West State St., Trenton, engr.

Conduits, Water and Drainage Lines, etc.—Phila., Pa.—Until June 24, by W. S. Twining, dir. dept. city transit, 1211 Chestnut St., for following appurtenant work for Frankford Elevated Ry.; Contr. No. 567 involves installation of electric conduits for lighting system in station buildings to be built at northeast and southwest corners of Kensington and Allegheny Aves., and southeast and southwest corners of Kensington Ave. and Somerset St.; Contr. No. 568, installation of water and drainage lines in station buildings to be built at same points as above.

Brass Service Pipe Fittings, etc.—Baltimore, Md.—Until June 24, by Bd. Awards, furnishing brass service pipe fittings, including 4800 stop cocks (all sizes), 825 brass pipe plugs, 400 special couplings, 300 tail pieces, 4700 assembled services, etc., cost $25,000; lead lined pipe and couplings, including 50,000 ft. ¾ in., 1200 ft. 1 in. and 1000 ft. 1½ in. lead pipe, $10,000.

Cotton Compress—Los Angeles, Cal.—Until July 9, by Bd. Harbor Comr., furnishing and installing high density cotton compress on city dock at San Pedro Harbor. Bidders may submit proposals for any type of plant, operated by either steam or electric power, having capacity of 50 to 100 bales per hour, bales to have density of 35 to 45. About $80,000. G. Wade, secy. Noted June 5.

Wharf—St. Michel de Bellechasse, Que.—Until June 24, by Dept. Pub. Wks., Ottawa, for removal and rebuilding wharf here, 853 ft. long, 5 to 10 ft. high, cribwork with stone fill, involving 100,000 ft. B. M. of 6 in. red birch sheathing and about 60,000 ft. B. M. of 2 in. fir plank decking. E. Lafleur, c/o Dept. Pub. Wks., engr. Noted Apr. 10 under "Canada."

Dam—Parry Sound, Ont.—See "Industrial Works."

Breakwater—Port Arthur, Ont.—Until June 25, by Dept. Pub. Wks., Ottawa, building 1600 ft. extension to rubble stone breakwater at Bare Point, 8 ft. high, 48 ft. wide, with cover of stones 8-10 ton in weight. About $125,000. E. Lafleur, c/o Dept. Pub. Wks., engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Cast Iron Pipe—Boston, Mass.—Comr. Pub. Wks. received bids June 12 furnishing 6 in. c.i. pipe, from R. D. Wood Co., Boston, at $50 per ton, and United States Cast Iron Co., Boston, $51.20 per ton.

Paving Materials—New York, N. Y.—F. L. Dowling, pres. Manhattan Boro., received bids June 6, furnishing and delivering (a) 20,000 bags Portland cement, (b) 2000 cu.yd. mixed aggregate, (c) 5800 cu.yd. binder stone, (d) 100,000 sewer bricks, (e) 3800 tons limestone, (f) 200,000 wood paving blocks, (g) 600,000 gal. refined asphalt, from J. A. McCarthy, 551 Exterior St., (a) $15,400, (d) $1785; J. P. Kane, 103 Park Ave., (a) $16,250; C. Tompkins, (b) $5300; Manhattan Sand Co., 418 East 49th St., (b) $5500; New York Trap Rock Co., 101 Park Ave., (c) $11,029, (e) $30,000; N. H. Trap Rock Co., (c) $11,890; R. H. Soper, (e) $33,306; Amer. Creosoting Co., 17 Battery Pl., (f) $9970; Warner Quinlan Asphalt Co., 79 Wall St., (g) $32,820; Standard Oil Co., 26 Bway., (g) $34,200. Noted May 29.

★Paving Bricks—Saranac Lake, N. Y.—Village let contract furnishing 70,000 paving bricks, to C. W. Denniston, Powers Bldg., Rochester, $47.50 per 1000.

★Pipe—Hollidaysburg, Pa.—Blair Co. let contract to Altoona Pipe & Supply Co., 1925 9th Ave., Altoona, furnishing 240 lin. ft. 24 in. corrugated iron gauge pipe at $1.90 per lin.ft.; 416 ft. 18 in., $1.26 per lin.ft.; 720 ft. 12 in., $.90 per lin.ft.

★Coal Storage Bin, Coal Handling Machinery, etc.—Mont Alto, Pa.—State Dept. Health, Harrisburg, let contract building rein.-con. coal storage bin, and installing coal handling machinery capable of handling 30 tons per hour, electrically driven, at Pennsylvania State Sanitorium for Tuberculosis, near here, to Specialty Eng. Co., Allegheny and Trenton Aves., Phila., $18,363. Work involves 25 cu.yd. Class "B" concrete, 150 cu.yd. earth and 25 cu.yd. rock excav. Noted May 15 under "Buildings, Harrisburg."

★Retaining Wall—New Castle, Pa.—See "Excavation and Dredging."

★Water Pond—Westport, Md. (Baltimore P. O.)—Consolidated Gas, Electric Light and Power Co., Lexington St. Bldg., will build 105 x 135 ft. water pond, rein.-con. sides and mass concrete bottom. About $22,500. Work will be done by day labor.

★Retaining Wall—Detroit, Mich.—See "Bridges."

★Pipe—Minneapolis, Minn.—K. E. Alexander, city purch. agt., let contract furnishing 500 tons 6-12 in. water pipe, to Amer. Cast Iron Pipe Co., Plymouth Bldg., $55.30 per ton. Noted Apr. 24.

Asphaltic Cement—St. Paul, Minn.—City received bids June 2, furnishing 320 tons asphaltic cement, from Sun Co., 2824 10th Ave., S. Minneapolis, $25 per ton; Camden Petroleum Co., 208 South La Salle St., Chicago, $19 per ton in tank cars, $25 in drums; Standard Oil Co., 4th and Oak Sts., Minneapolis, $19 in tank cars, $24.35 in packages; Carson Petroleum Co., 280 South La Salle St., Chicago, $19.19 in tank cars, $25.49 in barrels; Sinclair Refining Co., 111 West Washington St., Chicago, $11.50 per ton f.o.b. Mareaux, La.

Hollow Tile and Brick—St. Paul, Minn.—H. W. Austin, city purch. agt., City Hall, received bids from Twin City Brick Co., Capital Bank Bldg., for face and backing tile, various qualities, $13.20 to $70 per M. 21,500 rough face brick, $31 per M; Corning-Donohue Brick Co., 613 Tynan Bldg., 21,500 ft. rought face brick, $31 per M.

Fill—Astoria, Ore.—Sanitary and Recl. Comn. received bids May 29, building 1,260,000 cu.yd. fill in Recl. and Impvt. Dist. No. 3, from Puget Sound Bridge & Dredging Co., Central Bldg., Seattle, $0.22 per cu.yd.; United Dredging Co., New Jersey, Wash., $0.2244; Tacoma Dredging Co., Natl. Bank Tacoma Bldg., Tacoma, $0.235. Noted May 8.

★Pavilion—Portland, Ore.—Pacific International Livestock Assn. let contract building exposition livestock pavilion, 300 x 300 ft. amphitheatre with 100 x 200 ft. show ring, to A. Guthrie & Co., Sherlock Bldg. About $250,000. Noted Feb. 20 under "Buildings."